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# NUMBERS & ODDITIES #
//////////////////////////////////// \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
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-::: N&O #44 December 2001 :::-

HAPPY NEW YEAR TO YOU AND YOUR FAMILIES
 LET'S HOPE THAT 2002 WILL BE A GOOD ONE
 FOR ALL OF US !!!

Hi and welcome to N&O's final 2001 edition. It's time for a little celebration. The N&O website has recently welcomed its 25,000th visitor since I started it in May 1999. Thank you for your interest and do come back often!

I would like to thank all contributors for their help and logs that they have sent to me this year. Without you there would be no N&O. I hope that you will keep sending your findings. The 2001 N&O index will be posted to the N&O website shortly.

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★ INTERNET NEWS ★

Both the WUN and Spooks mailing lists have now been moved to the new Mailman software. As a result of this the list addresses have changed as did the way to (un)subscribe. The new mail addresses are:

wun@mailman.qth.net and spooks@mailman.qth.net

HOW TO (UN)SUBSCRIBE TO WUN
 (Worldwide Ute News Club)
 AND THE SPOOKS LIST

-WUN-

Go to the web interface at <http://mailman.qth.net/mailman/listinfo/wun>
 Fill in the form and follow the instructions that will be mailed to you. Write to listmaster@wunclub.com if you need assistance with the mailing list.

-SPOOKS-

Go to the web interface <http://mailman.qth.net/mailman/listinfo/spooks>
Fill in the form and follow the instructions that will be mailed to
you. The list run by Chris at csmolinski@erols.com

To get acquainted with the web interface, I'd suggest that you get
yourself a copy of the User Guide for List Subscribers at the following
address: <http://www.imsa.edu/~ckolar/mailman/mailman-userguide-0.1.pdf>
You need an Adobe Reader for this file.

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The "ENIGMA 2000" group has recently started a mailing list. Check the
list's website for more info: <http://groups.yahoo.com/group/enigma2000>

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* VOICE STATIONS *

::: LINCOLNSHIRE POACHER [E03]

Axel Kruse monitored the Lincolnshire Poacher on Sunday, 2 December at
1400 UTC. He heard the transmission on 11545 and 14487 kHz with normal
strength. Then he tuned to 15682 kHz. Axel writes "Reception ok. Then
back to 14487: nil. I remained there (in fact till 1445) and heard a
very faint signal of the LP. At 1421 there was an attempt to restore
normal power strength - for less than half a second the signal popped
up. Later there were some minor attempts too, but the signal remained
poor till the end. I reported earlier of the short circuits and/or
interruptions of the LP's transmissions and we had the discussion
whether they replaced their transmitters and/or antennas or not. For
quite some time it seemed that they had fixed the problem, but I think
they haven't."

The problems that Axel mentions occurred regularly during the past few
years. It is a kind of a trademark for the Cyprus site :-) Thanks for
the note, Axel!

LP was heard on 4 December, 2200 UTC, on a set of frequencies that
isn't used very often: 12603, 10426 and 8464 kHz instead of the
scheduled set of 11545, 9251 and 6959 kHz. "This triplet has been
active in the past, I have logs of it being used regularly in
92/93/94/95.", says Mike L.

JMM noticed another oddity: "Yesterday, 2001-12-10, at 2200z, E05 was
up and running as usual on 6960. There was no interference from E03.
Then, at 2215z, E03 suddenly started on 6959. It was late on schedule,
and started in the message body, without any preamble. E05 was still

airing a 145 or so group message. The resuming of E03 happened while E05 was still in the first message body transmission. Most probably, E03 behaviour was the result of a mistake. Someone just forgot to switch the right circuit on."

Lincolnshire Poacher idents compiled by Axel Kruse.

Idents as of December 1, 2001

UTC	Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC
1200	86228	86228	86228	86228	86228	86228	86228	1200
1300	53018	53018	53018	53018	53018	53018	53018	1300
1400	82518	81764	39281	14467	86228	51907	11272	1400
1500	11272	82518	81764	39281	14467	86228	09927	1500
1600	09927	11272	82518	81764	39281	14467	51907	1600
1700	51907	09927	11272	82518	81764	39281	86228	1700
1800	86228	51907	09927	11272	82518	81764	14467	1800
1900	14467	53018	51907	53018	11272	82518	53018	1900
2000	53018	86228	53018	09927	53018	11272	39281	2000
2100	39281	14467	86228	51907	09927	53018	81764	2100
2200	81764	39281	14467	86228	51907	09927	82518	2200

Idents as of Dec 15, 2001

UTC	Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC
1200	14284	14284	14284	14284	14284	14284	14284	1200
1300	37739	37739	37739	37739	37739	37739	37739	1300
1400	39882	79294	86960	69465	14284	66045	44836	1400
1500	44836	39882	79294	86960	69465	14284	85062	1500
1600	85062	44836	39882	79294	86960	69465	66045	1600
1700	66045	85062	44836	39882	79294	86960	14284	1700
1800	14284	66045	85062	44836	39882	79294	69465	1800
1900	69465	37739	66045	37739	44836	39882	37739	1900
2000	37739	14284	37739	85062	37739	44836	86960	2000
2100	86960	69465	14284	66045	85062	37739	79294	2100
2200	79294	86960	69465	14284	66045	85062	39882	2200

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::: E15

E15's transmission with id FYP (Frank Young Peter) was again heard on various times on 14000 kHz. The last reports of other frequencies date back to March 2001. Since then, only 14000 kHz has been reported. Times: 1100, 1400, 1500, 1600, 1700 UTC.

This one was sent on 9 December at 1400 UTC:

FYP FYP FYP
QTC QTC NR 1 NR 1 GR 01 GR 01
AYWRL FPSGN GXJXD DUUYH QHBLU STNTV PGRKR YAE0C EUSHO JMKRQ
AR AR

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::: E18

Ross McCallum was the first one who mentioned the unid numbers station on 5060 kHz at 2245 UTC. The station was on between 2245 and 2310 UTC on Wednesday 12 Dec., and Thursday 13 Dec. using USB one night and LSB on the second night. The transmission ended with '0000'.

The station was S9 in Scotland, S7 in Finland, S9+40 in Germany, while Chris heard it with S2 in the USA.

CR commented: "Your Unid is E18. Used to be on the second Wednesday and Thursday of each month, at a regular time of 2200 and 2300 UTC. Either on 8025 or 6545. But just recently the skeds and frequencies seem to be different each month. Call is 307 if it has a long message and 269 for a short message of 19 to 23 groups."

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::: S06

Two reports for S06 came in from CR:
S06A was on Tuesday at 2010 UTC on the same frequency as M1. M1 was just ending as S06 started up on 4490 kHz. The call was 270. It sent an odd 2 group message. The first message was 153 153 2 2 11111 11111 00035 00035. The second message was 182 182 46 46.

CR writes: "All the years I have been monitoring numbers stations, I have never heard an S06C until today (15 Dec.). It was on 10840 at 1500 and sent 11068 for 4 minutes."

Congrats with the S06C log, CR, and thanks for letting us know.

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::: S11A

S11A was on at 0800 UTC on 8187 kHz (3 Dec.), sending a message. The call was 978 and the message was 55 groups. When S11A sends a null message, the call is 976. <info: CR>

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★ MORSE STATIONS ★

::: M10

Tom checks in with a question about the station that only transmits "555". This station has been heard on a number of frequencies during the past few months. It is suggested that these transmissions are tests from M10.

10110 kHz, 0233 UTC, CW numbers: 555 555 555 for about 10 minutes.

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::: M13

This morse sister of E18 is still very active with daily transmissions on a number of changing frequencies. Check the logs database at <http://home.luna.nl/~ary/download.htm> for the logs. Like other numbers stations they have an annual schedule. Try to figure it out using the logs in the database.

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::: M40

Next stop is Chita, where Igor listens to the world. He sent us a M40 message that he heard on 8959 kHz at 1603 UTC on 5 Dec.

vvv cq995,492 (rptd)
vvv cq492 cq492 cq492
hr hr 19 19 = =
22226 26954 12017 88022 77947 06339 90465 08726 91955 87258
29035 07504 31044 65378 21013 30176 78245 69842 10103 ar ar
rpt rpt
...
ar ar sk sk

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::: M63 - A2A

The mysterious "A2A" has not been reported since clocks throughout Europe reverted to standard times at the end of October. Until that date it was on the freqs mentioned in the November newsletter; it does normally change times and freqs at the end of "summer time", but normally it would be found again within a few days. <info: John>

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::: M51

Although the station isn't reported often lately, it is still very much alive. Recent frequencies include 2555, 2563, 3616, 3618, 5479.5 kHz.

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::: M76

I broke my own stupidity record this month :-) I bought a timer to record M76 during the early hours and after a week I found out that I connected my scanner to the cassette deck instead of my NRD545.

M76 is still on 3819 kHz with daily schedules at 0500 and 1750 UTC. Reports are more than welcome as the station is very weak here in W.Europe. Here is M76's profile to give you something to hold on to.

The callsigns are 4 characters, the first sent 3x, the second sent 2x. They are changed daily, but the callsign used at 1750 is the same next day at 0500. New callsigns start at 1750 UTC.

Here is the transmission of Wednesday 5 December at 1750 UTC.

Y52Q DE P6MO QTC 76 29 =

26310 15030 80300 64416 90616 46113 17821 55000 11203 33538 52566
24255 64915 83721 71479 17143 14993 73611 749XX RRRRR 202XX WWWWW
76373 15377 64729 31576 57275 19158 NNNNN

369 9 = 40545 79669 39505 93513 19509 30931 09239 74484 37XXX
367 9 = 40545 79669 37505 83313 19509 30931 09269 03984 48437
352 17 = 40545 79659 32505 96048 19309 31092 69002 97396 84284
90995 81999 38355 15317 21999 35355 16173 437XX
325 44 =
279 27 =

<info: CR>

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::: MX

Channel marker "L" from St. Petersburg is back on the air on a new frequency: 3340 kHz. Its typical chirpy sound is not as distinctive as it used to be. The signal was quite strong over here. I copied the marker on various dates and copied an encrypted message on 14 December. The "L" marker stopped and a 75bd RTTY message followed between 2210

and 2214 UTC. After that the "L" marker resumed.

Transcript:

Marker "L" followed by 75/500 RTTY:

VVV VVV VVV HBBVCMVAHDBKYBOWYZ
VVV VVV VVV ZLZRDLYYBXXFCKQFCK
VVV VVV VVV PBBLFYCCVJYBLFYZVWYZ
VVV VVV VVV JZLZYJYYZBXAM/!:(/./&1'?,+877
'&'+&\$,: ,,- : '\$/:77-74'\$-)8
etcetera

Channel marker "V" from Khiva appeared on a number of frequencies in December: 3317, 3658, 4498.5, 5340, 5342 and 7630 kHz.

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::: UNIDS

Since at least three years Igor has copied an unid network that sends hand keyed short messages on a number of frequencies between 1300 and 2200 UTC, and possibly also on other times. Information about this net is most welcome.

Frequencies, callsigns and formats:

Freq.	Callsigns	Sample messages:
-----	-----	-----
3168	2IU CAR	VVV PZO PZO PZO DE B4C B4C QRU (repeated
3287	JD7 H2D	for 3 minutes) 416 416 SK SK TT
3596	B6Z Z5N	
3600	CRO XHC	VVV I6P I6P I6P DE AJG AJG QSA? QSA2 QSA?
4410	FJT BRI	
4411	PZO B4C	
4415	WM8 CB4	
4417	J3R I6P	
4420	FJT BRI	
4433	I6P AJG	
4640	J3R I6P	
4646	J3R I6P	
4650	SZT FGD	
4808	5I4 JAU	
5044	4V7 5W8	
5076	4ZI GW3	
5317	2VN 3X8	
5331	NUR	
9287	70G SVH	

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::: L9CC & FRIENDS

Uli, DJ9KR, Coordinator of DARC Monitoring System Intruder Watch told me that the RegTP (German PTT) has corrected the location of L9CC from Moscow to China. Igor, who lives in Chita, Russia, near the Chinese border, told us earlier that this station is most likely Chinese. Takashi from Nagasaki thinks that it is either in Central or Western Russia. The station is still very active on a number of frequencies and so far no one has ever copied a message.

V CP17 DE L9CC

3456, 3540, 3545, 3551, 5402, 7044, 7051, 7054, 7055, 7058, 7060, 7061, 7062.5, 7064, 7065.5, 7067, 7076, 7077.5 kHz

Similar operations were copied by Takashi on a number of frequencies. Looking at the format, these stations may be related to L9CC.

V ABYZ DE 6PXJ

3340, 3440, 4567, 4575, 5600, 6780, 6785 kHz

V BFR7 DE 4XML

3378.5, 5645, 5765, 8308, 10822 kHz

V IBEH DE L4FC

4762, 4769, 6501, 6505.5, 7620 kHz

V LA5H DE NH8T

4874, 5410.5, 5412, 5874, 6507, 7310, 7313, 8042 kHz

V J9RZ DE 8NMQ : 9071.5 kHz

Other unid (military) stations:

3534.5 ZJL4

4047.5 B4NR

6840.0 VVV Q2M DE NYZ

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* OTHER MODES *

::: FAPSI [X06/M42]

X06, the "Mazielka" selcall system of M42 was logged by Captain Davros on 11 Dec. on 7524 kHz at 2100 UTC, and on 5781 kHz at 2148 UTC.

Only a few M42 transmissions were reported in November and December. Here are the transcripts of two transmissions.

M42, 13470 kHz, 1430 UTC, 26 November 2001

11177 80061 71007 26702 00939

MZSZZ HMCZE RKNAF ZIFMT EWEFG FZIKK JGJRV HWEDV XXHXV HTMFP
JXKNR MNTPS PFCTN DOELK JUBZF JHHEN RONNX ARTYF LPVLD ECYIB
XJEQW PXVOQ ZQJIE BADRE PFQTY JWZHG ONHDK MZLJI MCKRL HVFEY
HSJJK BORTG ALKBQ LOOQT GVRUB FGRDB HYKDZ VBIDV PHNJE HDVTZ
OBBAU KHAEE PVWSR CNCDO EWXNW LACSC DOCFY TUDSW JWPZX RMIWP
IOVLE FWMUT JPZOA DDLJI OAASD HJNFA CONYE PFSOU JYRGQ YJPHA
DQECN HVMRR UTPXL YSJIQ LQWRY TUUXA PXMOC XBEPQ DRZZH GQKWN
UODCH GMTAG RDJVG HJFFH HKFJJ ECPMY DXYEZ HRQGH SAGVJ BWTAB
SIEXZ IXBRW YULMF RAWPI LNUHJ CWICL FXNSQ YVTKI VGRSJ ZMTIL
XZGGY UEOPQ

Unid link, 1512 UTC, 26 November 2001

A very long message with lots of hick-ups. The transmission stopped after 'ASM ASM' and continued after several minutes with the rest of the message. Short operator chat at the end.

1st try:

KKEXI PZIKQ TFUKI AJFMX EETUC VUGPS CJKCX LRUIU ICHQU KQVCM
JLWZF XLJBA DBYWZ YMNDT TQGHYHGFDL YEXJI EOMIM BXRXX VMQSL

2nd try:

JLWZF XLJBA DBYWZ YMNDT TQGHYHGFDL YEXJI EOMIM BXRXXXK

3rd try:

GSYKZ XMVSZ ZXLZF GELQF OWFTP VQVRZ VQLQG FLCHB OJXMK WBJSP
KKEXI PZIKQ TFUKI AJFMX EETUC VUGPS CJKCX LRUIU ICHQU KQVCM
JLWZF XLJBA DBYWZ YMNDT TQGHYHGFDL YEXJI OMIM BXR=

ASM ASM

... and the final one:

BXRXX VMIXA
VLGEG GUZJG XXHXE CLHIP CUGJN XOVCN TPRWI TKEKE EVMEX VZJOM
HEUKF RUACL YGNOP DJKPO BINSQ UCKYZ YYLZX VGRZF IFHYY TXXER
AZSOQ GKZNP HWVTV XUPWE PDSOS HQGIA JLCRB IQRQV DVIZZ IFBLD
SMUFX VWRJJ DTXJR NVZYQ TKPGD ENCGP OIEUZ HEVRM XSQEP FMBYE
SOJWJ VRCWM CMOSQ AQOIK JVDDB YKBNG IIYJR FPXQG KUWCD HFPMR
<clip>
YXOPT PGIFH OJRCK WRCRQ QHRIP QFCEU OBLJF RNQSS DJWDX DOJAO
WHRSN OOGVI JTFAF JABTR NIWSW UYJAY LPUEW WVYPH BIRLA LAQVX
LPXVH GDZDF WWYHK KVWVH EBCTB LRJJZ XPGCD CJUCQ PQYEN KYRWB

VMBWN UPIWI RIKML TBEIA CVPLU UOQNU UEROR

QRU QSL 5 4 7/
QSA QSJ?
CFM SK SK
CFM CFM SK SK

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::: SLOT MACHINE [XSL]

A number Slot Machine logs from Japan:

The Slot Machine was heard on a variety of frequencies, not all at the same time. Still no clues as to origin of station. Based upon the propagation it could be Japan, ROK, DPRK, or even China.

Frequencies: 3058, 3075, 4231, 4291, 5643, 6417, 6445, 6500, 6693, 6768, 8588, 8704 kHz.

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::: XPH

Expected schedules for January. Note that the 2110/30/50 schedule may carry M12 instead of XPH.

0700 11462	2100 6924	2110 7447
0720 13362	2120 5784	2130 5735
0740 14362	2140 4627	2150 4557

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::: SQUEAKY WHEEL

The "Squeaky Wheel" channel marker was very loud during the first weeks of December. Still no messages heard from this station. Frequency: 3828 kHz. Best heard during the European evening/night.

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* INTELLIGENCE PROFILE: CUBA *

- GENERAL

Country: Republica de Cuba [Cuba]
Capital: Habana [Havana]
Geographic coordinates: 21.30N, 80.00W

Administrative divisions:

14 provinces (provincias, singular - provincia) Camaguey, Ciego de Avila, Cienfuegos, Ciudad de La Habana, Granma, Guantanamo, Holguin, La Habana, Las Tunas, Matanzas, Pinar del Rio, Sancti Spiritus, Santiago de Cuba, Villa Clara, and 1 special municipality (municipio especial) Isla de la Juventud.

Military branches:

Revolutionary Armed Forces (FAR) includes ground forces, Revolutionary Navy (MGR), Air and Air Defense Force (DAAFAR), Territorial Troops Militia (MTT), and Youth Labor Army (EJT); the Border Guard (TGF) is controlled by the Interior Ministry

Intelligence agencies:

America Department (DA)
Directorate General of Intelligence (DGI)
Military Counter intelligence Department
Security Bureau
Intelligence and Analysis Bureau
Public Security Investigation Agency (Koancho)
La Red Avispa (Wasp Network)

Notes:

- Moscow, for decades the key military supporter and supplier of Cuba, cut off almost all military aid by 1993.
- US Naval Base at Guantanamo Bay is leased to the US and only mutual agreement or US abandonment of the area can terminate the lease.

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- INTELLIGENCE AGENCIES

The principal intelligence collection arms of the Cuban government are the Directorate General of Intelligence (DGI) of Ministry of the Interior, and the Military Counter intelligence Department of the Ministry of Revolutionary Armed Forces. Both have been closely associated with the Soviet and Russian intelligence services.

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- America Department (DA)
former National Liberation Directorate (DLN)
operated by the Central Committee Communist Party of Cuba

The DA has control over covert Cuban activities for supporting foreign liberation movements and coordinating Cuba's secret guerrilla and terrorist training camps, networks for the covert movement of personnel

and material from Cuba, and a propaganda apparatus.

The DA is organized into four regional sections: Central America, South America, the Caribbean, and North America, as well as a Center for Latin American Studies (CEAL) and a Center for North American Studies (CEA). Covers used by DA staff include diplomats, Cuba's Prensa Latina news agency, Cubana Airlines, the Institute for Friendship With the Peoples (ICAP), and Cuban-front companies. DA is reportedly the most powerful of Cuban's security agencies.

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- Directorate General of Intelligence (DGI)
operated by the Ministry of the Interior

The General Directorate of Intelligence (DGI) was established under the Ministry of the Interior (MININT) in late 1961. The new agency included three Liberation Committees - for the Caribbean, Central America, and South America - collectively known as the Liberation Directorate (DL). In the early 1960's, the agency also was responsible for supporting liberation movements in Africa. Nowadays the DGI is responsible for foreign intelligence collection. The DGI has six divisions divided into two categories of roughly equal size: the Operational Divisions and the Support Divisions.

The operational divisions include the Political/Economic Intelligence Division, the External Counter intelligence Division, and the Military Intelligence Division. The Political Economic Intelligence Division consists of four sections: Africa-Asia-Latin America, Eastern Europe, Western Europe, and North America. The External Counter intelligence Division is responsible for penetrating foreign intelligence services and the surveillance of exiles.

The support divisions include the Technical Support Division, the Information Division, and the Preparation Division. The Technical Support Division is responsible for production of false documents, communications systems supporting clandestine operations, and development of clandestine message capabilities. The Information and Preparation Divisions are responsible for intelligence analysis functions.

Cuba is considered by the United States to be a sponsor of international terrorism and has worked closely with Puerto Rican separatist and Latin American terrorist groups. Much of this activity has been handled through the DGI.

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- Military Counter intelligence Department
operated by the Ministry of Revolutionary Armed Forces

The Military Intelligence Department collects information on the U.S. Armed Forces and coordinates SIGINT operations with the Russians at Lourdes. The Military Counter intelligence Department is responsible for conducting counter intelligence, SIGINT, and electronic warfare activities against the United States.

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- La Red Avispa (Wasp Network)
Probably operated by the DGI.

La Red Avispa was considered the most daring attempt by Cuba to penetrate the Cuban exiles community in the USA. The network operated mainly in Florida until the FBI busted the agents in August 1998.

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Other agencies:

- Security Bureau
- Intelligence and Analysis Bureau
- Public Security Investigation Agency (Koancho)

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- Lourdes

The Lourdes Signals Intelligence (SIGINT) facility is located at 23.00.01N 82.28.56W

Cuba has an agreement with Russia which allows Moscow to maintain a signals intelligence facility near Havana at Lourdes, which is the largest Russian SIGINT site abroad. The strategic location of Lourdes makes it ideal for gathering intelligence on the United States. The Lourdes facility is reported to cover a 28 square-mile area with some 1,000-1,500 Russian engineers, technicians, and military personnel working at the base. The SIGINT facility at Lourdes is among the most significant intelligence collection capabilities targeting the United States. This facility, less than 100 miles from Key West, is one of the largest and most sophisticated SIGINT collection facilities in the world. It is jointly operated by Russian military intelligence (GRU), the Federal Agency for Government Communications (FAPSI), and Cuba's intelligence services. The Russian Foreign Intelligence Service (SVR) also has a communications center at the facility for its agent network in the Americas.

The complex is capable of monitoring a wide array of commercial and government communications throughout the southeastern United States, and between the USA and Europe. Lourdes intercepts transmissions from microwave towers in the USA, communication satellite downlinks, and a wide range of shortwave and high-frequency radio transmissions. It also serves as a mission ground station and analytical facility supporting Russian SIGINT satellites.

To the utter horror of many Russian military and intelligence officers, Russian president Putin recently announced that Russia will shut down Lourdes shortly.

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Sources:

CIA World Factbook 2001

Intelligence Threat Handbook

FAS - Federation of American Scientists

John J. Miller - National Review Vol. LIII, No. 21

Christopher Andrew and Oleg Gordievsky, KGB: The Inside Story

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::: ASSOCIATED NUMBERS STATIONS

[excerpts from various items that appeared in previous N&O issues]

VOICE STATIONS [V02 & V02a]

The Atencion stations are most probably the easiest numbers station to hear in North America. While transmissions have been heard at all hours, the most common times are from 0000-1200Z. Frequencies generally range from 4-12 MHz, although higher and lower frequencies have been used in the past.

Transmissions are always in Spanish. Transmissions are often of a poor technical quality, with hum and other noise frequently present. It is also not uncommon to hear other audio mixing into the numbers transmission, usually identified as Radio Havana Cuba, which does give away the transmitting location.

In the past, most transmissions used to repeat at H+30 many kHz up or down in frequency. This is not the case anymore, transmissions always begin on the hour. Well - they're supposed to. The Atencion stations are [in]famous for their technical glitches. It is not uncommon for there to be a few false starts before the transmission finally gets going.

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MORSE STATIONS [M08 & M08a]

M08 is V02's morse sister and has also been very active during the past years. Like V02, M08 used various formats in the past. The current format is the same as V02a. As a result V02a's morse sister is coded M08a. It was originally coded as M86.

M08(a) uses the following cut numbers:

A=1 N=2 D=3 U=4 W=5 R--6 1=7 G=8 M=9 T=0

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- FORMATS

These are the formats that have been used by the Cuban 'Atencion' stations. Format 2 is rare, but still in use today. Formats 6 and 8 are currently used by V02a and M08a.

In the past, a CW "ID" was often heard at the beginning of a voice transmission. It was "DE ? HI" which, 'translated' from CW into English, means 'Origin unknown, ha ha'.

* Format 1: [V02 obsolete]

Atencion 485 31	Repeated for several minutes
47383 59393 10322 93984 29494...	Message, in this case 31 groups
Final Final	Used to be "Adios" years ago

* Format 2: [V02 still in use, rare]

Atencion 823 01	Repeated for several minutes
01 45	Repeated for one minute
47383 59393 10322 93984 29494...	Message, in this case 45 groups
Final Final	

* Format 3: [V02 obsolete]

Atencion 237 01 32	Repeated for several minutes
32	Repeated for one minute
47383 59393 10322 93984 29494...	Message, in this case 32 groups
Final Final	

* Format 4: [V02 obsolete]

Atencion	Repeated three times
643 23	Repeated once
47383 59393 10322 93984 29494...	Message, in this case 23 groups
Final Final Final	

(this format was only observed on live transmissions)

* Format 5: [V02 obsolete]

Atencion 65848	Repeated for several minutes
65848 150	Repeated
47383 59393 10322 93984 29494...	Message, always 150 groups
Final Final (two or three finals)	

* Format 6: [V02a]

Atencion 72303 51781 41592	3 minutes, msg# 72303 51781 41592
72303	Repeated 5x
03832 13983 79833...	First message, always 150 groups
51781	Repeated 5x
04383 34932 88939...	Second message, always 150 groups
41592	Repeated 5x
49393 63832 12393...	Third message, always 150 groups
final final final	End of transmission

* Format 7: [M08 obsolete]

ADMNN	3 minutes, msg# ADMNN (occasionally two or three messages were sent)
ADMNN AWT = = =	Msg# + group count (AWT = 150)
AUMUD NUTMD... AR AR AR	Message, 150 groups
SK SK SK	End of transmission

* Format 8: [M08a]

ADMNN TIURA GWDUD	3 minutes, msg# ADMNN TIURA GWDUD
ADMNN = = =	Repeated 5x
AUMUD NUTMD... AR AR AR	First message, always 150 groups
TIURA = = =	Repeated 5x
WRGTA DDNAW... AR AR AR	Second message, always 150 groups
GWDUD = = =	Repeated 5x
NDURR GWART... AR AR AR	Third message, always 150 groups
SK SK SK	End of transmission

Additional remarks re formats 6 and 8:

The last figure/letter in the message header represents the number of times a message has been sent. This is usually an A(1), N(2) or D(3).

Examples:

ADMNN TIURA GWDUD or in digits: 13922 07461 85343, meaning that message 1392 has been sent twice, message 0746 has been sent once, and message 8534 has three times been aired.

Atencion 72303 51781 41592
Message 7230 sent 3x
Message 5178 sent 1x
Message 4159 sent 2x

<<<<<>>>>>

THE BORED MAN [V20]

This obscure station was famous for it's announcer. The man sounded extremely bored. Not so strange when you have to repeat a sequence of numbers for half an hour. The transmissions were always live and because of this, you could hear background noises, voices and mistakes. Compared to other Spanish speaking stations, this one sounded very sloppy. This raises the question 'was it an official Cuban operation or not'? It didn't sound like any other Cuban station. The odd thing is however that the transmissions stopped after the August 1998 FBI bust of the largest Cuban spy-network, La Red Avispa, or Wasp Network, along with some associated CW networks. La Red Avispa was considered the most daring attempt by Cuba to penetrate the Cuban exiles community in the USA. The Avispa network may have had a communications center of its own, which could explain the difference. Given the short messages the transmissions could have been a flag for agents to check their dead drops.

After 'Atencion Atencion Atencion', the Bored Man would repeat a one-character, 3-letter string like 'R290' three times then count from 1 to 10 in Spanish, and repeat the entire sequence for 30 minutes, two broadcasts per week.

<<<<<>>>>>

THE BABBLER [V21]

The 'babblers' babble a sequence of numbers, or more accurately a sequence of numeric fields, repeated, with some fields changing a bit each cycle typically. It's not unlike the Russian Air Defense CW equivalent, but chanted by a voice instead of keyed. The stations are most active during the Cuban days. These stations are said to be Cuban Air Defense stations.

<<<<<>>>>>

Sources:

Chris Smolinski, Mark Slaten, Albert, Simon Mason, John Maky, ENIGMA, WUN, Spooks list.

-0-0-0-0-0-0-0-0-0-0-

* LOGS SECTION *

First a warm welcome to the first time contributors. It's always good to hear from new enthusiast numbers monitors. Outside the Spy Database

Logs, an astonishing amount of well over 1000 logs reached me privately or via WUN. Thank you all for your overwhelming contributions and keep those logs coming, folks!!!

2232		3-tone channel marker CW 27-12-2001 Thu 2047 (AB)
2232.5		Unid. Pip. Loud throughout Europe during the night and also loud in W.Europe during the day AM 27-12-2001
2270	E10	in progress USB 07-12-2001 Fri 1522 (TI)
2362		Czech/Slovak mil. W4B2 DE NCW6 QTN 5LGs followed by channel marker W4B2 CW 23-12-2001 Sun 2350 (AB)
2362		Czech/Slovak mil. Marker GST7 CW 24-12-2001 Mon 1748 (AB)
2362		Czech/Slovak mil. Marker K7Q2 CW 25-12-2001 Tue 2229 (AB)
2391	MX	Channel marker "V", Khiva CW 25-12-2001 Tue 2238 (AB)
3158		Unid. Hand keyed morse. 2027 2048 = 434 TR2F = VJHDG BK + 5LGs CW 27-12-2001 Thu 1950 (AB)
3167	MX	Channel marker "P", Kaliningrad. Interrupted by RDL flash msgs CW 24-12-2001 Mon 2230 (AB)
3168	M13	716 CW 23-12-2001 Sun 2200 (HFD)
3168	M13B	id 716 000 CW 09-12-2001 Sun 2216 (AB)
3168	M13B	id 716 000 CW 23-12-2001 Sun 2200 (AB)
3195	MX	Channel marker "R", Izhevsk CW 25-11-2001 Sun 2323
3195	MX	Russian mil. Izhevsk. Channel marker 'R' CW 03-12-2001 Mon 2052 (AB)
3195	MX	Channel marker "R", Izhevsk CW 14-12-2001 Fri 2253
3246	M13	525 CW 25-11-2001 Sun 2200 (HFD)
3270	E10	Isreali Intel. MIW2 AM 30-12-2001 Sun 2300 (AB)
3292.0	V02a	barely audible; heavy QRM USB 18-12-2001 Tue 0200 (BM)
3317	MX	Channel marker "V", Khiva CW 16-12-2001 Sun 2334 (AB)
3318		Unid. 5FGs CW 25-12-2001 Tue 2148 (AB)
3326		Unid. WEJ4 clg PLN5 w/ QSA'a CW 27-12-2001 Thu 1619 (PILE)
3340		Unid. VVV VVV VVV for 5 mins. S/off at 2215 UTC RTTY 75/500 14-12-2001 Fri 2210 (AB)
3340	MX	Russian navy St. Petersburg. Channel marker 'L' on a new frequency CW 02-12-2001 Sun 2237 (AB)
3340	MX	Channel marker "L", St. Petersburg CW 14-12-2001 Fri 2252 (AB)
3383	M10	555 555 555 619 25 071 071 071 35 CW 27-12-2001 Thu 2100 (AB)
3399		Unid 5LGs CW 19-12-2001 Wed 2206 (AB)
3415	E10	ART //5435 USB 07-12-2001 Fri 1532 (TI)
3415	E10	Israeli Intel. in progress AM 25-12-2001 Tue 2225 (AB)
3415	E10	Israeli Intel. ART AM 30-12-2001 Sun 2300 (AB)
3492	M13	378 CW 15-12-2001 Sat 2200 (HFD)
3492	M13	378 CW 17-12-2001 Mon 2200 (HFD)
3525	M45	525-837/34=42329 //4025

4025 M45 1802 Thu 01-12-27 525-837/34=42329
 //3525 CW 27-12-2001 Thu 1802 (HFD)
 3593.9 MX Cluster becaon "S", Arkhangelsk CW 25-11-2001 Sun 2323
 (TJ)
 3640 E10 SYN2 //4780//7811 USB 27-11-2001 Tue 1546 (TI)
 3640 E10 KPA2 //6370 USB 24-12-2001 Mon 1731 (TI)
 3640 E10 KPA2 //6370 USB 24-12-2001 Mon 1746 (TI)
 3658 MX Russian navy. Channel marker 'V', Khiva CW 02-12-2001
 Sun 2257 (AB)
 3658 MX Channel marker "V", Khiva CW 14-12-2001 Fri 2257 (AB)
 3756 S30 the Pip, Rostov/Volvograd CW 25-11-2001 Sun 2340 (TJ)
 3756 S30 the Pip CW 02-12-2001 Sun 2255 (AB)
 3819 M76 barely readable CW 18-12-2001 Tue 0500 (AB)
 3819 M76 de ES4T + msgs CW 20-12-2001 Thu 0500 (AB)
 3819 M76 6R6R DE DFS9 + msgs CW 22-12-2001 Sat 0500 (AB)
 3819 M76 6R6R DE DFS9 + msgs CW 24-12-2001 Mon 0500 (AB)
 3819 M76 2P7...-- DE 70UC + msgs (...-- is the accented letter U)
 CW 27-12-2001 Thu 0500 (AB)
 3819 M76 in progress CW 30-12-2001 Sun 0500 (AB)
 3828 Squeaky Wheel channel marker 02-12-2001 Sun 2245 (AB)
 3843 M40 CQ615,198,233 CW 13-12-2001 Thu 1503 (IB)
 4015 E10 SYN2 //6912 USB 07-12-2001 Fri 1650 (TI)
 4015 E10 SYN2 //6912 USB 09-12-2001 Sun 1550 (TI)
 4015 E10 Israeli Intel. SYN2 AM 19-12-2001 Wed 2049 (AB)
 4017.0 V02a A 77483 56581 15252 USB 18-12-2001 Tue 0300 (BM)
 4023 S06 Russian Man. 586 214 214 5FGs 00000 AM 19-12-2001 Wed
 2050 (AB)
 4030 M10 in progress CW 19-12-2001 Wed 2106 (AB)
 4043 MX Channel marker "P", Kaliningrad. Interrupted by RDL
 flash msgs CW 24-12-2001 Mon 1850 (AB)
 4071.5 M21 Russian Air Defense CW 02-12-2001 Sun 1537 (TI)
 4121 M13 284 4155 M13 2000 Sun 01-12-23 417
 4180 M03 287/00 CW 21-12-2001 Fri 2100 (HFD)
 4123 M13 284 CW 02-11-2001 Fri 2100 (HFD)
 4124 M13 284 CW 16-11-2001 Fri 2100 (HFD)
 4124 M13 284 CW 16-11-2001 Fri 2100 (HFD)
 4165 E10 MIW2 //5230 USB 24-12-2001 Mon 1516 (TI)
 4165 E10 Israeli Intel. MIW2 AM 30-12-2001 Sun 2239 (AB)
 4180 M03 287/00 CW 22-11-2001 Thu 1630 (HFD)
 4180 M13 975 CW 21-11-2001 Wed 0530 (HFD)
 4190 Unid. Handkeyed, non Roman 5LGs. No id noted. Off
 abruptly CW 26-12-2001 Wed 0100 (AH)
 4231.5 XSL Slot Machine USB 02-12-2001 Sun 1613 (TI)
 4232 XSL Slot machine USB 10-12-2001 Mon 1656 (TI)
 4241 M22 4XZ Israeli Navy Haifa CW 17-11-2001 Sat 1541 (TI)
 4270 E10 Israeli Intel. PCD2 USB 29-11-2001 Thu 1601 (TI)
 4270 E10 in progress USB 07-12-2001 Fri 1434 (TI)
 4270 E10 in progress USB 24-12-2001 Mon 1646 (TI)

4270	E10	Israeli Intel. CI02 AM 30-12-2001 Sun 2300 (AB)
4270	E10A	Israeli Intel. AM 22-12-2001 2140 (PPs)
4272	E10	Israeli Intel. 5LGs AM 29-12-2001 Sat 2200 (PPF)
4291	XSL	Slot machine USB 10-12-2001 Mon 1656 (TI)
4325	MX	Channel marker "R", Izhevsk CW 25-12-2001 Tue 2247
4360	E10	CI02 //5339 USB 24-12-2001 Mon 1747 (TI)
4360	E10	Israeli Intel. CI02 AM 30-12-2001 Sun 2240 (AB)
4396	M62	Slovak Mil Zilina. QR2U QR2U QR2U = KP6F KP6F KP6F + CW 23-12-2001 Sun 2319 (AB)
4461	E10	FTJ USB 24-12-2001 Mon 1732 (TI)
4462	E10	Israeli Intel. AM 21-12-2001 2200 (PPs)
4490	M01	197-714/32=25572 CW 20-11-2001 Tue 2000 (HFD)
4498.5	MX	Channel marker 'V', Khiva CW 03-12-2001 Mon 1432 (TI)
4521		Unid 4FDU. Poss mil training net wkg E5H1 CW 27-12-2001 Thu 1652 (PILE)
4557.9	MX	Cluster becaon "S", Arkhangelsk CW 25-11-2001 Sun 2323 (TJ)
4560	E10	Israeli Intel. YHF//5820 USB 16-11-2001 Fri 1633 (TI)
4560	E10	Israeli Intel. YHF USB 27-11-2001 Tue 1631 (TI)
4560	E10	YHF //5820 USB 07-12-2001 Fri 1631 (TI)
4560	E10	YHF2 USB 24-12-2001 Mon 1702 (TI)
4583	M13	411 CW 15-12-2001 Sat 2130 (HFD)
4625	S28	Buzzer 25-11-2001 Sun 2346 (TJ)
4625	S28	Buzzer. Very distorted sound AM 03-12-2001 Mon 2149
4625	S28	Buzzer USB 04-12-2001 Tue 1439 (TI)
4631	S8BD	C6CP C6CP C6CP DE S8BD S8BD S8BD QTC 81 20 32302 = 636 C6CP = 5FGs = S8BD CW 03-12-2001 Mon 2150 (AB)
4631.5	M21	Russian Air Defense CW 02-12-2001 Sun 1538 (TI)
4632	M21	Russian Air Defense. BT99 etc CW 03-12-2001 Mon 2155
4637	XPH	AM 04-12-2001 Tue 2140 (TI)
4637	XPH	msg AM 11-12-2001 Tue 2140 (AB)
4648	E10	Israeli Intel. KPA2 AM 19-12-2001 Wed 2120 (AB)
4648	E10	Israeli Intel. KPA2 AM 26-12-2001 Wed 1747 (AB)
4648	E10	Israeli Intel. KPA2 AM 30-12-2001 Sun 2218 (AB)
4650	V02A	Cuban Intel. AM 21-12-2001 2215 (PPs)
4665	M13	346 CW 27-11-2001 Tue 2200 (HFD)
4780	E10	Israeli Intel. SYN2//7811 USB 26-11-2001 Mon 1448 (TI)
4780	E10	SYN2 //3640//7811 USB 27-11-2001 Tue 1547 (TI)
4780	E10	Israeli Intel. SYN2//7811 USB 30-11-2001 Fri 1447 (TI)
4846	M13	695 CW 25-12-2001 Tue 2100 (HFD)
4846	M13	in progress CW 25-12-2001 Tue 2112 (AB)
4880	E10	Israeli Intel. ULX//6270 USB 16-11-2001 Fri 1633 (TI)
4880	E10	MIW2 //5170//7445 USB 27-11-2001 Tue 1617 (TI)
4880	E10	Israeli Intel. ULX//6270 USB 27-11-2001 Tue 1632 (TI)
4880	E10	ULX //6270 USB 07-12-2001 Fri 1632 (TI)
4880	E10	ULX2 USB 07-12-2001 Fri 1732 (TI)
4880	E10	Israeli Intel. AM 22-12-2001 2135 (PPs)
4927	M13	411 CW 04-11-2001 Sun 2130 (HFD)

5019 M10E 111:36603-69/17=37454 50337-52/20=61109
59512-46/19=67287 60573-19/21=15490 000 CW
18-12-2001 Tue 0900 (HFD)
5020 M10e CW 17-12-2001 Mon 0900 (PB)
5060 E18 YL 5LGs USB 12-12-2001 Wed 2245 (RUK)
5060 E18 YL 5LGs LSB 13-12-2001 Thu 2245 (RUK)
5063 M51 BT NR 71 CW 16-12-2001 Sun 2302 (AB)
5063 M51 NR72D 18 00:08:08 2001=GVIPX EQAUI GAWQH.... CW
18-12-2001 Tue 2308 (PPF)
5091 E10 Israeli Intel. JSR USB 27-11-2001 Tue 1702 (TI)
5091 E10 JSR USB 07-12-2001 Fri 1533 (TI)
5091 E10 Israeli Intel. JSR2 AM 22-12-2001 2004 (PPs)
5091 E10 JSR2 USB 24-12-2001 Mon 1602 (TI)
5095 Unid. Friendly sounding English Man 5FGs USB
26-12-2001 Wed 2148 (MM4)
5098 261 Unid repeating "261" CW 03-12-2001 Mon 2101 (RGA)
5098 M13 590 CW 17-12-2001 Mon 2000 (HFD)
5098 M13 590 CW 17-12-2001 Mon 2100 (HFD)
5103 E07 981-2498/118=32680 AM 12-11-2001 Mon 2140 (HFD)
5109 XPH msg AM 06-11-2001 Tue 2140 (HFD)
5109 XPH AM 27-11-2001 Tue 2140 (TI)
5121 M40 vvv cq113,180 (R5) CW 24-12-2001 Mon 1602 (IB)
5128 M13 261 CW 05-11-2001 Mon 2000 (HFD)
5128 M13 261 CW 05-11-2001 Mon 2100 (HFD)
5128 M13 261 CW 19-11-2001 Mon 2008 (HFD)
5148 M40 vvv cq113,180 (R5) CW 25-12-2001 Tue 1601 (IB)
5153.6 MX Cluster beacon Odessa "D" CW 17-11-2001 Sat 1533 (TI)
5153.6 MX Cluster beacon Odessa "D" CW 19-12-2001 Wed 1409 (TI)
5153.6 MX Cluster beacon Odessa "D" CW 21-12-2001 Fri 1625 (TI)
5153.6 MX Cluster beacon Odessa "D" CW 23-12-2001 Sun 1557 (TI)
5154.2 MX Cluster beacon Vladivostok "F" CW 19-12-2001 Wed 1409
5154.2 MX Cluster beacon Vladivostok "F" CW 23-12-2001 Sun 1557
5159 M22 4XZ. Israeli Navy Haifa. VVV and 5LGs CW 19-12-2001
Wed 2130 (AB)
5162 XPH msg AM 16-11-2001 Fri 2150 (HFD)
5170 E10 MIW2 //4880//7445 USB 27-11-2001 Tue 1618 (TI)
5170 E10 Israeli Intel. MIW2//6270 USB 28-11-2001 Wed 1417 (TI)
5170 E10 Israeli Intel. MIW2 USB 28-11-2001 Wed 1518 (TI)
5170 E10 Israeli Intel. MIW2 USB 04-12-2001 Tue 1517 (TI)
5170 E10 Israeli Intel. MIW2 //7445 USB 04-12-2001 Tue 1617
5170 E10 Israeli Intel. MIW2 AM 19-12-2001 Wed 2131 (AB)
5170 E10 Israeli Intel. KPA2 AM 22-12-2001 1915 (PPs)
5170 E10 VLB2 //9270 USB 23-12-2001 Sun 1547 (TI)
5170 E10 VLB2 USB 23-12-2001 Sun 1646 (TI)
5170 E10 VLB2 //9270 USB 24-12-2001 Mon 1547 (TI)
5170 E10 VLB2 USB 24-12-2001 Mon 1647 (TI)
5200 MX Channel marker "R", Izhevsk CW 03-12-2001 Mon 2102
5228 M13 261 CW 16-12-2001 Sun 2000 (HFD)

5228	M13	261 CW 16-12-2001 Sun 2100 (HFD)
5230	E10	Israeli Intel. VLB2//7605 USB 16-11-2001 Fri 1547 (TI)
5230	E10	Israeli Intel. VLB2//7605 USB 16-11-2001 Fri 1647 (TI)
5230	E10	Israeli Intel. VLB2 AM 25-11-2001 Sun 2350 (TJ)
5230	E10	Israeli Intel. VLB2//7605 USB 26-11-2001 Mon 1449 (TI)
5230	E10	Israeli Intel. VLB2//7605 USB 27-11-2001 Tue 1447 (TI)
5230	E10	Israeli Intel. VLB2//7605 USB 27-11-2001 Tue 1547 (TI)
5230	E10	Israeli Intel. VLB2//7605 USB 30-11-2001 Fri 1447 (TI)
5230	E10	Israeli Intel. VLB2//7605 USB 01-12-2001 Sat 1447 (TI)
5230	E10	Israeli Intel. VLB2//7605 USB 01-12-2001 Sat 1547 (TI)
5230	E10	Israeli Intel. VLB2 //7605 USB 02-12-2001 Sun 1434
5230	E10	Israeli Intel. VLB2 //7605 USB 02-12-2001 Sun 1447
5230	E10	Israeli Intel. VLB2 //7605 USB 02-12-2001 Sun 1547
5230	E10	Israeli Intel. VLB2 //7605 USB 02-12-2001 Sun 1649
5230	E10	Israeli Intel. VLB2 //7605 USB 03-12-2001 Mon 1447
5230	E10	Israeli Intel. VLB2 USB 04-12-2001 Tue 1447 (TI)
5230	E10	Israeli Intel. VLB2 USB 04-12-2001 Tue 1547 (TI)
5230	E10	VLB2 //7605 USB 07-12-2001 Fri 1547 (TI)
5230	E10	VLB2 //7605 USB 07-12-2001 Fri 1647 (TI)
5230	E10	VLB2 //7605 USB 09-12-2001 Sun 1447 (TI)
5230	E10	VLB2 //7605 USB 09-12-2001 Sun 1547 (TI)
5230	E10	VLB2 //7605 USB 10-12-2001 Mon 1646 (TI)
5230	E10	VLB2 //7605 USB 12-12-2001 Wed 1447 (TI)
5230	E10	VLB2 //7605 USB 19-12-2001 Wed 1448 (TI)
5230	E10	VLB2 //7605 USB 22-12-2001 Sat 1547 (TI)
5230	E10	MIW2 USB 23-12-2001 Sun 1517 (TI)
5230	E10	VLB2 //9270 USB 24-12-2001 Mon 1447 (TI)
5230	E10	MIW2 //4165 USB 24-12-2001 Mon 1518 (TI)
5230	E10	MIW2 //7445 USB 24-12-2001 Mon 1717 (TI)
5230	E10	Israeli Intel. MIW2 AM 30-12-2001 Sun 2254 (AB)
5283	M13	id 757 CW 21-12-2001 Fri 2245 (AB)
5313	M21	Russian Air Defense CW 25-11-2001 Sun 2354 (TJ)
5313	M21	Russian Air Defense CW 02-12-2001 Sun 1536 (TI)
5315	MX	Sloppy marker (sounds like A, J, W, MMM, AMM) CW 02-12-2001 Sun 1055 (TI)
5339	E10	Israeli Intel. CI02//8025 USB 16-11-2001 Fri 1548 (TI)
5339	E10	Israeli Intel. CI02//8025 USB 16-11-2001 Fri 1647 (TI)
5339	E10	Israeli Intel. CI02//8025 USB 27-11-2001 Tue 1447 (TI)
5339	E10	Israeli Intel. CI02 USB 27-11-2001 Tue 1547 (TI)
5339	E10	Israeli Intel. CI02 USB 01-12-2001 Sat 1447 (TI)
5339	E10	Israeli Intel. CI02//8025 USB 01-12-2001 Sat 1547 (TI)
5339	E10	Israeli Intel. CI02 //8025 USB 02-12-2001 Sun 1547
5339	E10	Israeli Intel. CI02 //8025 USB 02-12-2001 Sun 1647
5339	E10	Israeli Intel. CI02 AM 02-12-2001 Sun 2250 (AB)
5339	E10	Israeli Intel. CI02 //8025 USB 04-12-2001 Tue 1447
5339	E10	CI02 //8025 USB 07-12-2001 Fri 1547 (TI)
5339	E10	CI02 USB 09-12-2001 Sun 1447 (TI)
5339	E10	CI02 //8025 USB 09-12-2001 Sun 1547 (TI)

5339 E10 CI02 //8025 USB 10-12-2001 Mon 1647 (TI)
5339 E10 CI02 //7605 USB 23-12-2001 Sun 1547 (TI)
5339 E10 CI02 //7605 USB 24-12-2001 Mon 1547 (TI)
5339 E10 CI02 //7605 USB 24-12-2001 Mon 1647 (TI)
5339 E10 CI02 //4360 USB 24-12-2001 Mon 1748 (TI)
5340 E10 Israeli Intel. CI02 AM 30-12-2001 Sun 2350 (AB)
5340 MX Channel marker Khiva 'V' CW 20-11-2001 Tue 1334 (TI)
5342 MX Channel marker Khiva 'V' CW 21-11-2001 Wed 1341 (TI)
5342 MX Channel marker Khiva 'V' CW 27-11-2001 Tue 1339 (TI)
5344 Unid. Fast 5FGs. Ends 000 000 CW 17-12-2001 Mon 2255
(RGA)
5359 XPH AM 04-12-2001 Tue 2150 (TI)
5359 XPH msg AM 07-12-2001 Fri 2150 (TI)
5359 XPH msg AM 07-12-2001 Fri 2150 (AB)
5359 XPH msg AM 14-12-2001 Fri 2132 (TI)
5359 XPH msg AM 14-12-2001 Fri 2150 (AB)
5359 XPH msg AM 25-12-2001 Tue 2150 (HFD)
5359 XPH msg AM 28-12-2001 Fri 2150 (HFD)
5388 XPH msg AM 25-12-2001 Tue 2300 (HFD)
5388.0 XPH AM 20-12-2001 Thu 2300 (Selco)
5388.0 XPH New sked? USB 20-12-2001 Thu 2300 (CS)
5400 Unid Cuban stations. "236" wkg "258" USB 20-12-2001
Thu 0245 (AH)
5417.0 V02a heavy QRM; barely audible USB 14-12-2001 Fri 0200 (BM)
5417.0 V02a AM 28-12-2001 Fri 0200 (NSC)
5419.5 M08a in progress CW 22-12-2001 Sat 0220 (BM)
5435 E10 Israeli Intel. ART USB 16-11-2001 Fri 1604 (TI)
5435 E10 Israeli Intel. ART USB 16-11-2001 Fri 1634 (TI)
5435 E10 Israeli Intel. ART2 USB 16-11-2001 Fri 1702 (TI)
5435 E10 Israeli Intel. ART USB 27-11-2001 Tue 1532 (TI)
5435 E10 Israeli Intel. ART USB 27-11-2001 Tue 1602 (TI)
5435 E10 Israeli Intel. ART USB 27-11-2001 Tue 1633 (TI)
5435 E10 Israeli Intel. ART2 USB 27-11-2001 Tue 1703 (TI)
5435 E10 Israeli Intel. ART2 USB 28-11-2001 Wed 1433 (TI)
5435 E10 Israeli Intel. ART USB 29-11-2001 Thu 1602 (TI)
5435 E10 Israeli Intel. ART2//6986 USB 01-12-2001 Sat 1402 (TI)
5435 E10 Israeli Intel. ART2 USB 01-12-2001 Sat 1432 (TI)
5435 E10 Israeli Intel. ART//6986 USB 01-12-2001 Sat 1502 (TI)
5435 E10 Israeli Intel. ART USB 01-12-2001 Sat 1532 (TI)
5435 E10 Israeli Intel. ART2 USB 02-12-2001 Sun 1432 (TI)
5435 E10 Israeli Intel. ART USB 02-12-2001 Sun 1603 (TI)
5435 E10 Israeli Intel. ART USB 02-12-2001 Sun 1632 (TI)
5435 E10 Israeli Intel. ART2 USB 02-12-2001 Sun 1702 (TI)
5435 E10 Israeli Intel. ART2 USB 03-12-2001 Mon 1433 (TI)
5435 E10 Israeli Intel. ART //6986 USB 03-12-2001 Mon 1502 (TI)
5435 E10 Israeli Intel. ART2 USB 04-12-2001 Tue 1432 (TI)
5435 E10 Israeli Intel. ART //6986 USB 04-12-2001 Tue 1502 (TI)
5435 E10 Israeli Intel. ART USB 04-12-2001 Tue 1532 (TI)

5435 E10 Israeli Intel. ART USB 04-12-2001 Tue 1602 (TI)
5435 E10 Israeli Intel. USB 04-12-2001 Tue 1705 (TI)
5435 E10 Israeli Intel. ART USB 05-12-2001 Wed 1432 (TI)
5435 E10 Israeli Intel. ART USB 06-12-2001 Thu 1602 (TI)
5435 E10 in progress USB 07-12-2001 Fri 1435 (TI)
5435 E10 ART //6986 USB 07-12-2001 Fri 1502 (TI)
5435 E10 ART//3415 USB 07-12-2001 Fri 1534 (TI)
5435 E10 ART USB 07-12-2001 Fri 1603 (TI)
5435 E10 ART USB 07-12-2001 Fri 1702 (TI)
5435 E10 ART USB 07-12-2001 Fri 1733 (TI)
5435 E10 ART USB 08-12-2001 Sat 1532 (TI)
5435 E10 ART USB 09-12-2001 Sun 1532 (TI)
5435 E10 in progress USB 10-12-2001 Mon 1647 (TI)
5435 E10 ART USB 12-12-2001 Wed 1432 (TI)
5435 E10 ART USB 12-12-2001 Wed 1502 (TI)
5435 E10 ART USB 19-12-2001 Wed 1431 (TI)
5435 E10 ART //6986 USB 19-12-2001 Wed 1502 (TI)
5435 E10 ART USB 19-12-2001 Wed 1532 (TI)
5435 E10 ART USB 21-12-2001 Fri 1532 (TI)
5435 E10 ART USB 21-12-2001 Fri 1602 (TI)
5435 E10 ART USB 22-12-2001 Sat 1602 (TI)
5435 E10 Israeli Intel. ART AM 22-12-2001 2002 (PPs)
5435 E10 ART USB 23-12-2001 Sun 1602 (TI)
5435 E10 ART2 USB 24-12-2001 Mon 1434 (TI)
5465 MX Channel marker 'R' CW 02-12-2001 Sun 1521 (TI)
5465 MX Channel marker Izhevsk "R" CW 10-12-2001 Mon 1652 (TI)
5465 MX Channel marker Izhevsk "R" CW 19-12-2001 Wed 1410 (TI)
5465 MX Channel marker "R", Izhevsk CW 20-12-2001 Thu 0230
5465 MX Channel marker Izhevsk "R" CW 21-12-2001 Fri 1626 (TI)
5471 MX Marker "E" CW 10-12-2001 Mon 1654 (TI)
5715 V23 AM 27-11-2001 Tue 1608 (TI)
5715 V23 AM 06-12-2001 Thu 1608 (TI)
5765 E06 965-382/101=84110 AM 19-11-2001 Mon 2110 (HFD)
5776 XPH AM 04-12-2001 Tue 2120 (TI)
5776 XPH null msg AM 07-12-2001 Fri 2120 (TI)
5776 XPH null msg AM 07-12-2001 Fri 2120 (AB)
5776 XPH msg AM 11-12-2001 Tue 2120 (AB)
5776 XPH AM 11-12-2001 Tue 2121 (TI)
5776 XPH null msg AM 14-12-2001 Fri 2120 (AB)
5776 XPH null msg AM 14-12-2001 Fri 2120 (TI)
5776 XPH 0-msg AM 21-12-2001 Fri 2120 (HFD)
5776 XPH 0-msg AM 25-12-2001 Tue 2120 (HFD)
5776 XPH 0-msg AM 28-12-2001 Fri 2120 (HFD)
5780 X06 AM 17-12-2001 Mon 2103 (HFD)
5781 X06 FAPSI. Mazielka calls AM 11-12-2001 Tue 2148 (CD)
5809 XPH msg AM 06-11-2001 Tue 2120 (HFD)
5809 XPH AM 13-11-2001 Tue 2120 (TI)
5809 XPH AM 16-11-2001 Fri 2119 (TI)

5809 XPH AM 27-11-2001 Tue 2120 (TI)
5809 XPH AM 30-11-2001 Fri 2120 (TI)
5810 M01 197-612/96=73239 CW 10-11-2001 Sat 1500 (HFD)
5820 E10 Israeli Intel. USB 16-11-2001 Fri 1502 (TI)
5820 E10 Israeli Intel. YHF//4560 USB 16-11-2001 Fri 1634 (TI)
5820 E10 Israeli Intel. YHF2 USB 16-11-2001 Fri 1703 (TI)
5820 E10 Israeli Intel. USB 20-11-2001 Tue 1342 (TI)
5820 E10 Israeli Intel. YHF//7918 USB 26-11-2001 Mon 1431 (TI)
5820 E10 Israeli Intel. USB 27-11-2001 Tue 1448 (TI)
5820 E10 Israeli Intel. YHF//7918 USB 27-11-2001 Tue 1502 (TI)
5820 E10 Israeli Intel. YHF USB 27-11-2001 Tue 1532 (TI)
5820 E10 Israeli Intel. YHF2 USB 27-11-2001 Tue 1703 (TI)
5820 E10 Israeli Intel. YHF2 USB 01-12-2001 Sat 1402 (TI)
5820 E10 Israeli Intel. YHF USB 01-12-2001 Sat 1432 (TI)
5820 E10 Israeli Intel. YHF USB 01-12-2001 Sat 1502 (TI)
5820 E10 Israeli Intel. YHF USB 01-12-2001 Sat 1532 (TI)
5820 E10 Israeli Intel. YHF //7918 USB 02-12-2001 Sun 1502 (TI)
5820 E10 Israeli Intel. YHF USB 02-12-2001 Sun 1632 (TI)
5820 E10 Israeli Intel. YHF2 USB 02-12-2001 Sun 1702 (TI)
5820 E10 Israeli Intel. YHF //7918 USB 04-12-2001 Tue 1432 (TI)
5820 E10 Israeli Intel. YHF //7918 USB 04-12-2001 Tue 1502 (TI)
5820 E10 Israeli Intel. YHF USB 04-12-2001 Tue 1532 (TI)
5820 E10 Israeli Intel. YHF USB 04-12-2001 Tue 1632 (TI)
5820 E10 in progress USB 07-12-2001 Fri 1436 (TI)
5820 E10 YHF //7918 USB 07-12-2001 Fri 1502 (TI)
5820 E10 in progress USB 07-12-2001 Fri 1534 (TI)
5820 E10 YHF //4560 USB 07-12-2001 Fri 1633 (TI)
5820 E10 YHF USB 08-12-2001 Sat 1532 (TI)
5820 E10 YHF USB 09-12-2001 Sun 1432 (TI)
5820 E10 YHF //7918 USB 09-12-2001 Sun 1502 (TI)
5820 E10 in progress USB 12-12-2001 Wed 1448 (TI)
5820 E10 YHF USB 12-12-2001 Wed 1503 (TI)
5820 E10 YHF USB 16-12-2001 Sun 1503 (TI)
5820 E10 in progress USB 19-12-2001 Wed 1448 (TI)
5820 E10 YHF //7918 USB 19-12-2001 Wed 1502 (TI)
5820 E10 YHF USB 19-12-2001 Wed 1532 (TI)
5820 E10 YHF USB 21-12-2001 Fri 1632 (TI)
5820 E10 YHF USB 23-12-2001 Sun 1532 (TI)
5820 E10 YHF USB 24-12-2001 Mon 1434 (TI)
5820 E10 YHF //7918 USB 24-12-2001 Mon 1502 (TI)
5820 E10 YHF USB 24-12-2001 Mon 1533 (TI)
5820 E10 YHF USB 24-12-2001 Mon 1632 (TI)
5899 E07 981-2498/118=32680 AM 12-11-2001 Mon 2120 (HFD)
5920 M21 Russian Air Defense CW 02-12-2001 Sun 1540 (TI)
5927 XPH msg AM 07-12-2001 Fri 2130 (AB)
5927 XPH null msg AM 11-12-2001 Tue 2130 (AB)
5927 XPH msg AM 14-12-2001 Fri 2130 (AB)
5927 XPH msg AM 14-12-2001 Fri 2132 (TI)

5927	XPH	0-msg AM 21-12-2001 Fri 2130 (HFD)
5927	XPH	null AM 21-12-2001 Fri 2130 (TI)
5927	XPH	msg AM 25-12-2001 Tue 2130 (HFD)
5927	XPH	msg AM 28-12-2001 Fri 2130 (HFD)
6209		Unid sloppy handkey Cyrillic. Poor. At least two stations CW 21-12-2001 Fri 0350 (AH)
6270	E10	Israeli Intel. ULX2 USB 16-11-2001 Fri 1604 (TI)
6270	E10	Israeli Intel. ULX//4880 USB 16-11-2001 Fri 1634 (TI)
6270	E10	Israeli Intel. ULX2 USB 16-11-2001 Fri 1703 (TI)
6270	E10	Israeli Intel. ULX2 USB 17-11-2001 Sat 1432 (TI)
6270	E10	Israeli Intel. ULX//7760 USB 27-11-2001 Tue 1503 (TI)
6270	E10	Israeli Intel. ULX2//7760 USB 27-11-2001 Tue 1533 (TI)
6270	E10	Israeli Intel. ULX1 USB 27-11-2001 Tue 1602 (TI)
6270	E10	Israeli Intel. ULX//4880 USB 27-11-2001 Tue 1633 (TI)
6270	E10	Israeli Intel. MIW2//5170 USB 28-11-2001 Wed 1418 (TI)
6270	E10	Israeli Intel. ULX2 USB 29-11-2001 Thu 1603 (TI)
6270	E10	Israeli Intel. ULX//7760 USB 01-12-2001 Sat 1502 (TI)
6270	E10	Israeli Intel. ULX2//7760 USB 01-12-2001 Sat 1533 (TI)
6270	E10	Israeli Intel. ULX USB 02-12-2001 Sun 1633 (TI)
6270	E10	Israeli Intel. ULX2 USB 02-12-2001 Sun 1702 (TI)
6270	E10	Israeli Intel. ULX //7760 USB 04-12-2001 Tue 1502 (TI)
6270	E10	Israeli Intel. ULX2 //7760 USB 04-12-2001 Tue 1533
6270	E10	Israeli Intel. ULX USB 04-12-2001 Tue 1632 (TI)
6270	E10	Israeli Intel. ULX1 USB 06-12-2001 Thu 1602 (TI)
6270	E10	ULX //7760 USB 07-12-2001 Fri 1502 (TI)
6270	E10	ULX1 USB 07-12-2001 Fri 1604 (TI)
6270	E10	ULX //4880 USB 07-12-2001 Fri 1633 (TI)
6270	E10	ULX2 USB 07-12-2001 Fri 1702 (TI)
6270	E10	ULX2 USB 08-12-2001 Sat 1533 (TI)
6270	E10	ULX2 USB 16-12-2001 Sun 1532 (TI)
6270	E10	ULX USB 19-12-2001 Wed 1503 (TI)
6270	E10	ULX2 //7760 USB 19-12-2001 Wed 1532 (TI)
6270	E10	ULX USB 21-12-2001 Fri 1633 (TI)
6270	E10	ULX2 USB 22-12-2001 Sat 1534 (TI)
6270	E10	ULX1 USB 23-12-2001 Sun 1603 (TI)
6270	E10	ULX USB 23-12-2001 Sun 1632 (TI)
6270	E10	ULX2 USB 23-12-2001 Sun 1703 (TI)
6270	E10	ULX2 //7760 USB 24-12-2001 Mon 1533 (TI)
6270	E10	ULX USB 24-12-2001 Mon 1632 (TI)
6270	E10	ULX2 //4880 USB 24-12-2001 Mon 1702 (TI)
6270	E10	Israeli Intel. ULX + msg AM 28-12-2001 Fri 1500 (AB)
6270	E10	Israeli Intel. ULX1 AM 28-12-2002 Fri 1602 (TI)
6272	M13	517 CW 04-12-2001 Tue 2000 (HFD)
6272	M13	517 CW 04-12-2001 Tue 2100 (HFD)
6272	M13	517 CW 17-12-2001 Mon 2000 (HFD)
6272	M13	517 CW 17-12-2001 Mon 2100 (HFD)
6370	E10	Israeli Intel. KPA2 //8127 USB 02-12-2001 Sun 1617
6370	E10	Israeli Intel. KPA2 //8127 USB 04-12-2001 Tue 1418

6370	E10	Israeli Intel. KPA2 //8127//10125 USB 04-12-2001 Tue 1518 (TI)
6370	E10	Israeli Intel. KPA2 USB 04-12-2001 Tue 1617 (TI)
6370	E10	KPA2 //8127 10125 USB 07-12-2001 Fri 1518 (TI)
6370	E10	KPA2 USB 07-12-2001 Fri 1617 (TI)
6370	E10	KPA2 USB 07-12-2001 Fri 1717 (TI)
6370	E10	KPA2 //8127//10125 USB 08-12-2001 Sat 1517 (TI)
6370	E10	KPA2 //8127//10125 USB 12-12-2001 Wed 1416 (TI)
6370	E10	KPA2 USB 21-12-2001 Fri 1617 (TI)
6370	E10	KPA2 //8127//10125 USB 24-12-2001 Mon 1519 (TI)
6370	E10	KPA2 //8127 USB 24-12-2001 Mon 1617 (TI)
6370	E10	KPA2 USB 24-12-2001 Mon 1718 (TI)
6370	E10	KPA2 //3640 USB 24-12-2001 Mon 1733 (TI)
6370	E10	KPA2 //3640 USB 24-12-2001 Mon 1749 (TI)
6378	M22	4XZ Israeli navy Haifa CW 17-11-2001 Sat 1549 (TI)
6378	M22	4XZ Israeli Navy Haifa CW 24-12-2001 Mon 1549 (TI)
6417	XSL	Slot machine USB 20-11-2001 Tue 1622 (TI)
6417	XSL	Slot Machine USB 02-12-2001 Sun 1612 (TI)
6417	XSL	Slot machine USB 09-12-2001 Sun 1539 (TI)
6417	XSL	Slot machine USB 10-12-2001 Mon 1656 (TI)
6427	M13	261 CW 04-11-2001 Sun 2100 (HFD)
6427	M13	261 CW 18-11-2001 Sun 2100 (HFD)
6428	E10	Israeli Intel. ABC USB 28-11-2001 Wed 1434 (TI)
6428	E10	Israeli Intel. ABC ended at 1429 USB 04-12-2001 Tue
6428	E10	Israeli Intel. ABC ended at 1513 USB 04-12-2001 Tue
6428	E10	Israeli Intel. ABC ended at 1543 USB 04-12-2001 Tue
6428	E10	ABC USB 16-12-2001 Sun 1518 (TI)
6428	E10	ABC (ended at 1738) USB 24-12-2001 Mon 1519 (TI)
6428	E10	ABC USB 25-12-2001 Tue 1428 (TI)
6428	E10	Israeli Intel. ABC AM 31-12-2002 Mon 1418 (TI)
6445	XSL	Slot machine USB 20-11-2001 Tue 1623 (TI)
6445	XSL	Slot Machine USB 02-12-2001 Sun 1612 (TI)
6445	XSL	Slot machine USB 09-12-2001 Sun 1540 (TI)
6445	XSL	Slot machine USB 10-12-2001 Mon 1656 (TI)
6472	M13	272 CW 04-12-2001 Tue 2200 (HFD)
6485	E03	Lincolnshire Poacher USB 22-12-2001 Sat 1907 (PPs)
6498	E10	Israeli Intel. USB 16-11-2001 Fri 1635 (TI)
6498	E10	Israeli Intel. PCD2//8805 USB 16-11-2001 Fri 1703 (TI)
6498	E10	Israeli Intel. PCD2 USB 26-11-2001 Mon 1432 (TI)
6498	E10	Israeli Intel. PCD USB 27-11-2001 Tue 1533 (TI)
6498	E10	Israeli Intel. PCD USB 27-11-2001 Tue 1633 (TI)
6498	E10	Israeli Intel. PCD2 USB 27-11-2001 Tue 1703 (TI)
6498	E10	Israeli Intel. USB 29-11-2001 Thu 1537 (TI)
6498	E10	Israeli Intel. PCD2 USB 29-11-2001 Thu 1603 (TI)
6498	E10	Israeli Intel. PCD USB 01-12-2001 Sat 1503 (TI)
6498	E10	Israeli Intel. PCD//8805 USB 01-12-2001 Sat 1533 (TI)
6498	E10	Israeli Intel. PCD //8805 USB 02-12-2001 Sun 1532 (TI)
6498	E10	Israeli Intel. PCD USB 02-12-2001 Sun 1633 (TI)

6498	E10	Israeli Intel. PCD2 USB 02-12-2001 Sun 1703 (TI)
6498	E10	Israeli Intel. PCD USB 04-12-2001 Tue 1533 (TI)
6498	E10	Israeli Intel. PCD USB 04-12-2001 Tue 1633 (TI)
6498	E10	in progress USB 07-12-2001 Fri 1535 (TI)
6498	E10	PCD USB 07-12-2001 Fri 1634 (TI)
6498	E10	PCD2 //8805 USB 07-12-2001 Fri 1703 (TI)
6498	E10	PCD //8805 USB 07-12-2001 Fri 1733 (TI)
6498	E10	PCD //8805 USB 08-12-2001 Sat 1533 (TI)
6498	E10	PCD //8805 USB 09-12-2001 Sun 1532 (TI)
6498	E10	PCD USB 16-12-2001 Sun 1533 (TI)
6498	E10	PCD USB 19-12-2001 Wed 1533 (TI)
6498	E10	in progress USB 21-12-2001 Fri 1603 (TI)
6498	E10	PCD USB 21-12-2001 Fri 1633 (TI)
6498	E10	PCD //8805 USB 22-12-2001 Sat 1534 (TI)
6498	E10	PCD //8805 USB 23-12-2001 Sun 1533 (TI)
6498	E10	PCD2 USB 23-12-2001 Sun 1603 (TI)
6498	E10	PCD USB 23-12-2001 Sun 1633 (TI)
6498	E10	PCD2//8805 USB 23-12-2001 Sun 1703 (TI)
6498	E10	in progress USB 24-12-2001 Mon 1435 (TI)
6498	E10	PCD //8805 USB 24-12-2001 Mon 1534 (TI)
6498	E10	PCD2 USB 24-12-2001 Mon 1603 (TI)
6498	E10	PCD USB 24-12-2001 Mon 1632 (TI)
6498	E10	PCD2 //8805 USB 24-12-2001 Mon 1703 (TI)
6498	E10	PCD //8805 USB 24-12-2001 Mon 1734 (TI)
6529	V21	Cuban Babbler. Numeric traffic USB 11-12-2001 Tue 1600 (AH)
6529.0	V21	OM SS Babbler (singing Spanish numbers) AM 12-12-2001 Wed 2245 (DG)
6529.0	V21	OM SS Babbler (singing Spanish numbers) AM 12-12-2001 Wed 2310 (DG)
6625	V21	Cuban Babbler USB 14-12-2001 Fri 1613 (AH)
6700	E05	Counting Station. 279 1234567890 USB 25-12-2001 Tue 2110 (MM4)
6768	V02a	Spanish 5FGs USB 03-12-2001 Mon 0415 (MvA)
6781	XPH	AM 13-11-2001 Tue 2130 (TI)
6781	XPH	msg AM 16-11-2001 Fri 2130 (HFD)
6781	XPH	AM 16-11-2001 Fri 2130 (TI)
6781	XPH	AM 27-11-2001 Tue 2130 (TI)
6781	XPH	AM 30-11-2001 Fri 2130 (TI)
6788	XPH	msg AM 25-12-2001 Tue 2240 (HFD)
6790	G06	308/0 AM 05-11-2001 Mon 2000 (HFD)
6848	XPH	AM 04-12-2001 Tue 2100 (TI)
6848	XPH	null msg AM 07-12-2001 Fri 2100 (AB)
6848	XPH	null msg AM 07-12-2001 Fri 2100 (TI)
6848	XPH	msg AM 11-12-2001 Tue 2100 (AB)
6848	XPH	AM 11-12-2001 Tue 2100 (TI)
6848	XPH	null msg AM 14-12-2001 Fri 2100 (AB)
6848	XPH	null msg AM 14-12-2001 Fri 2101 (TI)

6848	XPH	null AM 21-12-2001 Fri 2100 (TI)
6848	XPH	0-msg AM 21-12-2001 Fri 2100 (HFD)
6848	XPH	0-msg AM 25-12-2001 Tue 2100 (HFD)
6848	XPH	0-msg AM 28-12-2001 Fri 2100 (HFD)
6855.0	V02a	A 66861 08242 6114_ AM 31-12-2001 Mon 0300 (BM)
6855.0	V02A	in progress AM 31-12-2001 Mon 0302 (CS)
6885	V09	Guangzhou calling AM 11-12-2001 Tue 1530 (AY)
6900	E03	Lincolnshire Poacher USB 22-12-2001 Sat 2042 (PPs)
6912	E10	Israeli Intel. SYN2 USB 02-12-2001 Sun 1433 (TI)
6912	E10	Israeli Intel. SYN2 USB 02-12-2001 Sun 1449 (TI)
6912	E10	Israeli Intel. SYN2 USB 02-12-2001 Sun 1548 (TI)
6912	E10	Israeli Intel. SYN2 USB 03-12-2001 Mon 1447 (TI)
6912	E10	Israeli Intel. SYN2 USB 04-12-2001 Tue 1448 (TI)
6912	E10	Israeli Intel. SYN2 USB 04-12-2001 Tue 1548 (TI)
6912	E10	SYN2 //4015 USB 07-12-2001 Fri 1548 (TI)
6912	E10	SYN2 //4015 USB 07-12-2001 Fri 1648 (TI)
6912	E10	SYN2 USB 09-12-2001 Sun 1448 (TI)
6912	E10	SYN2 //4015 USB 09-12-2001 Sun 1548 (TI)
6912	E10	SYN2 USB 10-12-2001 Mon 1650 (TI)
6912	E10	SYN2 USB 12-12-2001 Wed 1449 (TI)
6912	E10	SYN2 USB 19-12-2001 Wed 1449 (TI)
6912	E10	SYN2 USB 21-12-2001 Fri 1548 (TI)
6912	E10	SYN2 USB 22-12-2001 Sat 1547 (TI)
6912	E10	SYN2 USB 23-12-2001 Sun 1548 (TI)
6912	E10	SYN2 USB 23-12-2001 Sun 1647 (TI)
6912	E10	SYN2 USB 24-12-2001 Mon 1449 (TI)
6912	E10	SYN2 USB 24-12-2001 Mon 1550 (TI)
6912	E10	SYN2 USB 24-12-2001 Mon 1603 (TI)
6912	E10	SYN2 //4015 USB 24-12-2001 Mon 1633 (TI)
6912	E10	Israeli Intel. SYN10Z2 AM 27-12-2001 Thu 2100 (LD0)
6912	E10	Israeli Intel. SYN24 AM 28-12-2001 Fri 1548 (TI)
6912	E10	Israeli Intel. SYN2 AM 30-12-2001 Sun 1745 (AB)
6934	XPH	AM 04-12-2001 Tue 2110 (TI)
6934	XPH	msg AM 07-12-2001 Fri 2110 (AB)
6934	XPH	msg AM 07-12-2001 Fri 2110 (TI)
6934	XPH	null msg AM 11-12-2001 Tue 2110 (AB)
6934	XPH	AM 11-12-2001 Tue 2110 (TI)
6934	XPH	msg AM 14-12-2001 Fri 2110 (AB)
6934	XPH	msg AM 14-12-2001 Fri 2112 (TI)
6934	XPH	null AM 21-12-2001 Fri 2110 (TI)
6934	XPH	0-msg AM 21-12-2001 Fri 2110 (HFD)
6934	XPH	Tones AM 21-12-2001 2110 (PPs)
6934	XPH	msg AM 25-12-2001 Tue 2110 (HFD)
6934	XPH	msg AM 28-12-2001 Fri 2110 (HFD)
6935	E06	965-382/101=84110 AM 19-11-2001 Mon 2010 (HFD)
6955	E05	Counting Station. 492 1234567890 USB 26-12-2001 Wed 2205 (MM4)
6959	E03	id 66045 //8464//11545 USB 24-12-2001 Mon 1707 (TI)

6959	E03	LP in progress USB 27-12-2001 Thu 2023 (AB)
6959	E03	LP. id 85062 USB 28-12-2001 Fri 2100 (AB)
6959	E03	LP. id 66045 USB 28-12-2001 Fri 2200 (AB)
6959	E03	LP. id 31868 USB 30-12-2001 Sun 1900 (AB)
6960	E05	Counting Station in progress USB 26-12-2001 Wed 2215 (MM4)
6964	E07	981/0 AM 05-11-2001 Mon 2100 (HFD)
6964	E07	981-2498/118=32680 AM 12-11-2001 Mon 2100 (HFD)
6964	E07	ip AM 17-12-2001 Mon 2105 (HFD)
6982	M13	926 CW 14-12-2001 Fri 1800 (HFD)
6982	M13	926 CW 27-12-2001 Thu 1600 (HFD)
6982	M13	926 CW 27-12-2001 Thu 1800 (HFD)
6982	M13	id 926 CW 28-12-2001 Fri 1600 (AB)
6982	M13	926 CW 28-12-2001 Fri 1600 (HFD)
6982	M13	926 CW 28-12-2001 Fri 1800 (HFD)
6985	E10	Israeli Intel. AM 22-12-2001 1902 (PPs)
6986	E10	Israeli Intel. ART USB 16-11-2001 Fri 1503 (TI)
6986	E10	Israeli Intel. ART USB 27-11-2001 Tue 1503 (TI)
6986	E10	Israeli Intel. ART USB 30-11-2001 Fri 1502 (TI)
6986	E10	Israeli Intel. ART2//5435 USB 01-12-2001 Sat 1403 (TI)
6986	E10	Israeli Intel. ART//5435 USB 01-12-2001 Sat 1504 (TI)
6986	E10	Israeli Intel. ART USB 02-12-2001 Sun 1503 (TI)
6986	E10	Israeli Intel. ART //5435 USB 03-12-2001 Mon 1502 (TI)
6986	E10	Israeli Intel. ART //5435 USB 04-12-2001 Tue 1503 (TI)
6986	E10	ART //5435 USB 07-12-2001 Fri 1503 (TI)
6986	E10	ART USB 08-12-2001 Sat 1503 (TI)
6986	E10	in progress USB 09-12-2001 Sun 1518 (TI)
6986	E10	ART USB 12-12-2001 Wed 1504 (TI)
6986	E10	ART USB 16-12-2001 Sun 1503 (TI)
6986	E10	ART2 USB 19-12-2001 Wed 1403 (TI)
6986	E10	ART //5435 USB 19-12-2001 Wed 1504 (TI)
6986	E10	ART USB 21-12-2001 Fri 1503 (TI)
6986	E10	ART USB 23-12-2001 Sun 1502 (TI)
6986	E10	in progress USB 24-12-2001 Mon 1404 (TI)
6986	E10	ART USB 24-12-2001 Mon 1503 (TI)
7038.6	MX	Cluster beacon Odessa "D" CW 21-12-2001 Fri 1626 (TI)
7038.9	MX	Cluster beacon "S", Arkhangelsk CW 06-12-2001 Thu 1545 (RGA)
7038.9	MX	Cluster beacon Arkhangelsk "S" CW 21-12-2001 Fri 1626
7038.9	MX	Cluster beacon "S", Arkhangelsk CW 26-12-2001 Wed 1531 (AB)
7039	MX	Cluster Beacon 'S', Arkhangelsk CW 02-12-2001 Sun 1441
7045	L9CC	CP17 DE L9CC CW 06-12-2001 Thu 1548 (RGA)
7337	E03	Lp. id 69465 USB 30-12-2001 Sun 1800 (AB)
7392		Unid. fast 5FGs. Ends 000 000 CW 21-12-2001 Fri 2130 (RGA)
7416	M13	254 CW 07-11-2001 Wed 2200 (HFD)
7416	M13	254 CW 21-11-2001 Wed 2200 (HFD)

7425	XPH	USB 13-11-2001 Tue 2101 (TI)
7425	XPH	AM 16-11-2001 Fri 2100 (TI)
7425	XPH	USB 20-11-2001 Tue 2100 (TI)
7425	XPH	AM 30-11-2001 Fri 2100 (TI)
7427	XPH	msg AM 06-11-2001 Tue 2100 (HFD)
7445	E10	MIW2 //4880//5170 USB 27-11-2001 Tue 1619 (TI)
7445	E10	Israeli Intel. MIW2 USB 02-12-2001 Sun 1618 (TI)
7445	E10	Israeli Intel. MIW2//5170 USB 04-12-2001 Tue 1618 (TI)
7445	E10	MIW2 USB 19-12-2001 Wed 1518 (TI)
7445	E10	MIW2 USB 21-12-2001 Fri 1618 (TI)
7445	E10	MIW2 USB 24-12-2001 Mon 1618 (TI)
7445	E10	MIW2 //5230 USB 24-12-2001 Mon 1719 (TI)
7485	M13	id 254 CW 05-12-2001 Wed 2200 (AB)
7485	M13	id 254 CW 06-12-2001 Thu 2200 (AB)
7485	M13	id 254 CW 20-12-2001 Thu 2200 (AB)
7524	X06	FAPSI. Mazielka calls AM 11-12-2001 Tue 2100 (CD)
7540	E10	Israeli Intel. JSR USB 17-11-2001 Sat 1435 (TI)
7540	E10	in progress USB 07-12-2001 Fri 1437 (TI)
7540	E10	JSR USB 08-12-2001 Sat 1534 (TI)
7540	E10	in progress USB 09-12-2001 Sun 1448 (TI)
7540	E10	JSR USB 12-12-2001 Wed 1403 (TI)
7540	E10	in progress USB 12-12-2001 Wed 1449 (TI)
7540	E10	JSR USB 19-12-2001 Wed 1403 (TI)
7540	E10	JSR USB 19-12-2001 Wed 1432 (TI)
7540	E10	in progress USB 24-12-2001 Mon 1436 (TI)
7555.0	V02	ID=?? In progress Heavy interference from at least two other broadcast station AM 16-12-2001 Sun 0304
7566		Unid Cuban network. CLG90 clg CLG70, CLG51, CLG30, CLG8 USB 23-12-2001 Sun 0205 (AH)
7576	M13	880 CW 08-11-2001 Thu 1800 (HFD)
7605	E10	Israeli Intel. VLB2 USB 16-11-2001 Fri 1448 (TI)
7605	E10	Israeli Intel. VLB2//5230 USB 16-11-2001 Fri 1550 (TI)
7605	E10	Israeli Intel. VLB2//5230 USB 16-11-2001 Fri 1649 (TI)
7605	E10	Israeli Intel. VLB2//5230 USB 26-11-2001 Mon 1450 (TI)
7605	E10	Israeli Intel. VLB2//5230 USB 27-11-2001 Tue 1448 (TI)
7605	E10	Israeli Intel. VLB2//5230 USB 27-11-2001 Tue 1549 (TI)
7605	E10	Israeli Intel. VLB2//5230 USB 30-11-2001 Fri 1448 (TI)
7605	E10	Israeli Intel. VLB2//5230 USB 01-12-2001 Sat 1447 (TI)
7605	E10	Israeli Intel. VLB2//5230 USB 01-12-2001 Sat 1548 (TI)
7605	E10	Israeli Intel. VLB2 //5230 USB 02-12-2001 Sun 1434
7605	E10	Israeli Intel. VLB2 //5230 USB 02-12-2001 Sun 1447
7605	E10	Israeli Intel. VLB2 //5230 USB 02-12-2001 Sun 1549
7605	E10	Israeli Intel. VLB2 //5230 USB 02-12-2001 Sun 1648
7605	E10	Israeli Intel. VLB2 //5230 USB 03-12-2001 Mon 1448
7605	E10	VLB2 //5230 USB 07-12-2001 Fri 1548 (TI)
7605	E10	VLB2 //5230 USB 07-12-2001 Fri 1648 (TI)
7605	E10	VLB2 //5230 USB 09-12-2001 Sun 1449 (TI)
7605	E10	VLB2 //5230 USB 09-12-2001 Sun 1548 (TI)

7605	E10	VLB2 //5230 USB 10-12-2001 Mon 1648 (TI)
7605	E10	VLB2 //5230 USB 12-12-2001 Wed 1449 (TI)
7605	E10	VLB2 //5230 USB 19-12-2001 Wed 1450 (TI)
7605	E10	VLB2 //5230 USB 22-12-2001 Sat 1548 (TI)
7605	E10	CI02 //5339 USB 23-12-2001 Sun 1549 (TI)
7605	E10	CI02 USB 23-12-2001 Sun 1648 (TI)
7605	E10	CI02 USB 24-12-2001 Mon 1449 (TI)
7605	E10	CI02 //5339 USB 24-12-2001 Mon 1550 (TI)
7605	E10	CI02 //5339 USB 24-12-2001 Mon 1649 (TI)
7630	M23	id 555 //8290 CW 26-12-2001 Wed 2138 (IB)
7630	MX	Channel marker 'V' CW 03-12-2001 Mon 2134 (AB)
7668	M16	8BY. DGSE. VVV 8BY 3FGs. Weak CW 03-12-2001 Mon 2147 (AB)
7668	M16	8BY. DGSE. VVV 8BY + 3FGs CW 13-12-2001 Thu 0550 (N2UHC)
7725	XPH	0-msg AM 09-11-2001 Fri 2110 (HFD)
7725	XPH	msg AM 16-11-2001 Fri 2110 (HFD)
7727	XPH	AM 13-11-2001 Tue 2110 (TI)
7727	XPH	AM 16-11-2001 Fri 2110 (TI)
7727	XPH	USB 20-11-2001 Tue 2110 (TI)
7727	XPH	AM 30-11-2001 Fri 2110 (TI)
7737	M13	id 714 CW 27-12-2001 Thu 2100 (AB)
7737	M13	714 CW 28-12-2001 Fri 2100 (HFD)
7760	E10	Israeli Intel. ULX//6270 USB 27-11-2001 Tue 1504 (TI)
7760	E10	Israeli Intel. ULX2//6270 USB 27-11-2001 Tue 1534 (TI)
7760	E10	Israeli Intel. ULX//6270 USB 01-12-2001 Sat 1504 (TI)
7760	E10	Israeli Intel. ULX2//6270 USB 01-12-2001 Sat 1534 (TI)
7760	E10	Israeli Intel. ULX2 USB 02-12-2001 Sun 1533 (TI)
7760	E10	Israeli Intel. ULX USB 03-12-2001 Mon 1503 (TI)
7760	E10	Israeli Intel. ULX //6270 USB 04-12-2001 Tue 1504 (TI)
7760	E10	Israeli Intel. ULX2 //6270 USB 04-12-2001 Tue 1534
7760	E10	ULX //6270 USB 07-12-2001 Fri 1503 (TI)
7760	E10	ULX USB 08-12-2001 Sat 1503 (TI)
7760	E10	ULX USB 09-12-2001 Sun 1503 (TI)
7760	E10	ULX2 USB 09-12-2001 Sun 1533 (TI)
7760	E10	ULX USB 12-12-2001 Wed 1504 (TI)
7760	E10	ULX USB 16-12-2001 Sun 1504 (TI)
7760	E10	ULX2 USB 16-12-2001 Sun 1534 (TI)
7760	E10	ULX2 //6270 USB 19-12-2001 Wed 1533 (TI)
7760	E10	ULX USB 21-12-2001 Fri 1503 (TI)
7760	E10	ULX2 USB 21-12-2001 Fri 1533 (TI)
7760	E10	ULX USB 23-12-2001 Sun 1503 (TI)
7760	E10	ULX2 USB 23-12-2001 Sun 1533 (TI)
7760	E10	ULX USB 24-12-2001 Mon 1503 (TI)
7760	E10	ULX2 //6270 USB 24-12-2001 Mon 1534 (TI)
7769	M23	id 555 CW 26-12-2001 Wed 2209 (IB)
7811	E10	Israeli Intel. SYN2 USB 16-11-2001 Fri 1448 (TI)
7811	E10	Israeli Intel. SYN2 USB 16-11-2001 Fri 1551 (TI)

7811	E10	Israeli Intel. SYN2//4780 USB 16-11-2001 Fri 1649 (TI)
7811	E10	Israeli Intel. SYN2//4780 USB 26-11-2001 Mon 1450 (TI)
7811	E10	Israeli Intel. SYN2 USB 27-11-2001 Tue 1448 (TI)
7811	E10	SYN2 //3640//4780 USB 27-11-2001 Tue 1549 (TI)
7811	E10	Israeli Intel. SYN2//4780 USB 30-11-2001 Fri 1448 (TI)
7811	E10	Israeli Intel. SYN2//4780 USB 01-12-2001 Sat 1449 (TI)
7811	E10	Israeli Intel. SYN2 USB 01-12-2001 Sat 1548 (TI)
7824	M13	253 CW 21-12-2001 Fri 2100 (HFD)
7918	E10	Israeli Intel. USB 16-11-2001 Fri 1605 (TI)
7918	E10	Israeli Intel. USB 20-11-2001 Tue 1343 (TI)
7918	E10	Israeli Intel. YHF//5820 USB 26-11-2001 Mon 1433 (TI)
7918	E10	Israeli Intel. USB 27-11-2001 Tue 1449 (TI)
7918	E10	Israeli Intel. YHF//5820 USB 27-11-2001 Tue 1504 (TI)
7918	E10	Israeli Intel. USB 27-11-2001 Tue 1606 (TI)
7918	E10	Israeli Intel. YHF USB 29-11-2001 Thu 1604 (TI)
7918	E10	Israeli Intel. YHF USB 30-11-2001 Fri 1503 (TI)
7918	E10	Israeli Intel. YHF //5820 USB 02-12-2001 Sun 1504 (TI)
7918	E10	Israeli Intel. YHF USB 02-12-2001 Sun 1604 (TI)
7918	E10	Israeli Intel. YHF USB 03-12-2001 Mon 1434 (TI)
7918	E10	Israeli Intel. YHF2 USB 04-12-2001 Tue 1403 (TI)
7918	E10	Israeli Intel. YHF //5820 USB 04-12-2001 Tue 1433 (TI)
7918	E10	Israeli Intel. YHF //5820 USB 04-12-2001 Tue 1505 (TI)
7918	E10	Israeli Intel. YHF //10648 USB 04-12-2001 Tue 1603
7918	E10	Israeli Intel. //10648 USB 06-12-2001 Thu 1605 (TI)
7918	E10	in progress USB 07-12-2001 Fri 1437 (TI)
7918	E10	YHF //5820 USB 07-12-2001 Fri 1503 (TI)
7918	E10	//10648 USB 07-12-2001 Fri 1605 (TI)
7918	E10	YHF2 USB 08-12-2001 Sat 1504 (TI)
7918	E10	YHF //5820 USB 09-12-2001 Sun 1503 (TI)
7918	E10	USB 19-12-2001 Wed 1450 (TI)
7918	E10	YHF //5820 USB 19-12-2001 Wed 1504 (TI)
7918	E10	YHF //10648 USB 22-12-2001 Sat 1603 (TI)
7918	E10	YHF USB 23-12-2001 Sun 1503 (TI)
7918	E10	YHF //10648 USB 23-12-2001 Sun 1604 (TI)
7918	E10	YHF //5820 USB 24-12-2001 Mon 1504 (TI)
7918	E10	YHF //10648 USB 24-12-2001 Mon 1604 (TI)
7918.0	E10	In progress AM 31-12-2001 Mon 0230 (CS)
7960		Unid 684 684 684 684 684 684 000. Long zero used CW 27-12-2001 Thu 0003 (IB)
7960	310	Unid repeating "310" CW 12-12-2001 Wed 0200 (IB)
7980	M23	id 555 CW 26-12-2001 Wed 2038 (IB)
8025	E10	Israeli Intel. CI02 USB 16-11-2001 Fri 1448 (TI)
8025	E10	Israeli Intel. CI02//5339 USB 16-11-2001 Fri 1551 (TI)
8025	E10	Israeli Intel. CI02//5339 USB 16-11-2001 Fri 1650 (TI)
8025	E10	Israeli Intel. CI02 USB 26-11-2001 Mon 1451 (TI)
8025	E10	Israeli Intel. CI02//5339 USB 27-11-2001 Tue 1449 (TI)
8025	E10	Israeli Intel. CI02//5339 USB 01-12-2001 Sat 1548 (TI)
8025	E10	Israeli Intel. CI02 USB 02-12-2001 Sun 1449 (TI)

8025	E10	Israeli Intel. CI02 //5339 USB 02-12-2001 Sun 1548
8025	E10	Israeli Intel. CI02 //5339 USB 02-12-2001 Sun 1649
8025	E10	Israeli Intel. CI02 USB 03-12-2001 Mon 1448 (TI)
8025	E10	Israeli Intel. CI02 //5339 USB 04-12-2001 Tue 1448
8025	E10	Israeli Intel. CI02 USB 04-12-2001 Tue 1549 (TI)
8025	E10	CI02 //5339 USB 07-12-2001 Fri 1548 (TI)
8025	E10	CI02 USB 07-12-2001 Fri 1648 (TI)
8025	E10	CI02 //5339 USB 09-12-2001 Sun 1549 (TI)
8025	E10	CI02 //5339 USB 10-12-2001 Mon 1648 (TI)
8025	E10	CI02 USB 19-12-2001 Wed 1450 (TI)
8025	E10	CI02 USB 21-12-2001 Fri 1548 (TI)
8025	E10	CI02 USB 22-12-2001 Sat 1548 (TI)
8075		Unid Cuban net with two stations. 5FGs CW 27-10-2001 Sat 0209 (AH)
8097	V02a	Atencion Numbers Station. YL/SS w/54803 56251 86863 repeated then into 5FGs AM 01-12-2001 Sat 0603 (MADX)
8098.0	V02a	In progress AM 13-12-2001 Thu 0625 (BM)
8104.0	M22	4XZ CW 31-12-2001 Mon 0200 (CS)
8127	E10	Israeli Intel. KPA2 //10125 USB 02-12-2001 Sun 1518
8127	E10	Israeli Intel. KPA2 //6370 USB 02-12-2001 Sun 1618
8127	E10	Israeli Intel. KPA2 //6370 USB 04-12-2001 Tue 1420
8127	E10	Israeli Intel. KPA2 //6370//10125 USB 04-12-2001 Tue 1519 (TI)
8127	E10	KPA2 //10125 USB 07-12-2001 Fri 1418 (TI)
8127	E10	KPA2 //6370 10125 USB 07-12-2001 Fri 1519 (TI)
8127	E10	KPA2 //6370//10125 USB 08-12-2001 Sat 1518 (TI)
8127	E10	KPA2 //6370//10125 USB 12-12-2001 Wed 1418 (TI)
8127	E10	KPA2 //10125 USB 16-12-2001 Sun 1520 (TI)
8127	E10	KPA2 USB 19-12-2001 Wed 1451 (TI)
8127	E10	KPA2 over 1 hour USB 19-12-2001 Wed 1505 (TI)
8127	E10	KPA2 //10125 USB 21-12-2001 Fri 1518 (TI)
8127	E10	KPA2 //10125 USB 22-12-2001 Sat 1518 (TI)
8127	E10	KPA2 //10125 USB 23-12-2001 Sun 1518 (TI)
8127	E10	KPA2 //10125 USB 24-12-2001 Mon 1419 (TI)
8127	E10	KPA2 //6370//10125 USB 24-12-2001 Mon 1520 (TI)
8127	E10	KPA2 //6370 USB 24-12-2001 Mon 1618 (TI)
8187	S11a	Call 978. Message of 55 groups AM 03-12-2001 Mon 0800 (CR)
8187.0	M08	AM 29-12-2001 Sat 0007 (MK)
8187.0	M08	CW 29-12-2001 Sat 0700 (MK)
8187.0	M08	AM 29-12-2001 Sat 0700 (MK)
8188	XPH	msg AM 25-12-2001 Tue 2220 (HFD)
8190	S17C	99031 AM 03-11-2001 Sat 1250 (HFD)
8190	S17C	94031 AM 04-11-2001 Sun 1250 (HFD)
8190	S17C	99032 AM 11-11-2001 Sun 1250 (HFD)
8190	S17C	99038 AM 17-11-2001 Sat 1250 (HFD)
8190	S17C	11032 AM 18-11-2001 Sun 1250 (HFD)
8190	S17C	99029 AM 24-11-2001 Sat 1250 (HFD)

8190	S17C	99034	//9385 AM 15-12-2001 Sat 1250 (HFD)
8190	S17C	49035	//9385 AM 16-12-2001 Sun 1250 (HFD)
8190	S17C	99035	//9385 AM 21-12-2001 Fri 1250 (HFD)
8190	S17C	99035	//9385 AM 22-12-2001 Sat 1250 (HFD)
8190	S17C	96030	//9385 AM 27-12-2001 Thu 1250 (HFD)
8190	S17C	78027	//9385 AM 28-12-2001 Fri 1250 (HFD)
8190	S17C	555 555 555 313 313 313 05 etc	AM 28-12-2001 Fri 1250
8190	S17C	78027	//9385 AM 29-12-2001 Sat 1250 (HFD)
8190	S17C	99034	//9385 AM 30-12-2001 Sun 1250 (HFD)
8190	S17C	99034	//9385 AM 31-12-2001 Mon 1250 (HFD)
8190.0	S17C	11065 USB	02-12-2001 Sun 1250 (Selco)
8207		Unid net.	Sloppy handkeyed FGs CW 20-10-2001 Sat 1520 (AH)
8271	M13	517 CW	05-11-2001 Mon 2000 (HFD)
8271	M13	517 CW	05-11-2001 Mon 2100 (HFD)
8271	M13	517 CW	06-11-2001 Tue 2100 (HFD)
8271	M13	517 CW	19-11-2001 Mon 2008 (HFD)
8271	M13	517 CW	19-11-2001 Mon 2108 (HFD)
8290	M23	id 555	//7630 CW 26-12-2001 Wed 2138 (IB)
8300	V13	New Star BC	AM 16-11-2001 Fri 1507 (TI)
8300	V13	New Star BC	AM 17-11-2001 Sat 1509 (TI)
8300	V13	New Star BC	AM 20-11-2001 Tue 1303 (TI)
8300	V13	New Star BC	AM 20-11-2001 Tue 1402 (TI)
8300	V13	New Star BC	AM 27-11-2001 Tue 1509 (TI)
8300	V13	New Star BC	AM 29-11-2001 Thu 1608 (TI)
8300	V13	New Star BC	AM 30-11-2001 Fri 1507 (TI)
8300	V13	New Star BC	AM 01-12-2001 Sat 1058 (TI)
8300	V13	New Star BC	AM 01-12-2001 Sat 1357 (TI)
8300	V13	New Star BC	AM 01-12-2001 Sat 1509 (TI)
8300	V13	New Star BC	AM 02-12-2001 Sun 1439 (TI)
8300	V13	New Star BC	AM 02-12-2001 Sun 1507 (TI)
8300	V13	New Star BC	AM 03-12-2001 Mon 1506 (TI)
8300	V13	New Star BC	AM 04-12-2001 Tue 1408 (TI)
8300	V13	New Star BC	AM 04-12-2001 Tue 1510 (TI)
8300	V13	New Star BC	AM 06-12-2001 Thu 1538 (TI)
8300	V13	New Star BC	AM 08-12-2001 Sat 1509 (TI)
8300	V13	New Star BC	AM 09-12-2001 Sun 1440 (TI)
8300	V13	New Star BC	AM 09-12-2001 Sun 1509 (TI)
8300	V13	New Star BC	AM 12-12-2001 Wed 1437 (TI)
8300	V13	New Star BC	AM 12-12-2001 Wed 1507 (TI)
8300	V13	New Star BC	AM 19-12-2001 Wed 1407 (TI)
8300	V13	New Star BC	AM 19-12-2001 Wed 1508 (TI)
8300	V13	New Star BC	AM 21-12-2001 Fri 1511 (TI)
8300	V13	New Star BC	AM 22-12-2001 Sat 1506 (TI)
8300	V13	New Star BC	AM 23-12-2001 Sun 1508 (TI)
8300	V13	New Star BC	AM 24-12-2001 Mon 1410 (TI)
8300	V13	New Star BC	AM 24-12-2001 Mon 1508 (TI)
8300.0	V13	flute interval;	y1/cc 4fgx2 AM 15-12-2001 Sat 1230

8300.0 V13 flute interval; y1/cc 4fgx2 AM 15-12-2001 Sat 1300
8300.0 V13 flute interval; y1/cc 4fgx2 AM 15-12-2001 Sat 1330
8300.0 V13 In prog; New Star Broadcasting AM 18-12-2001 Tue 1510
8300.0 V13 New Star Broadcasting USB 22-12-2001 Sat 1500 (BM)
8300.0 V13 faint; new star broadcasting USB 23-12-2001 Sun 1500
8300.0 V13 New Star Broadcasting AM 26-12-2001 Wed 1430 (BM)
8464 E03 LP USB 27-11-2001 Tue 1537 (TI)
8464 E03 LP id 51905 //10426 USB 02-12-2001 Sun 1620 (TI)
8464 E03 LP id 82518 //10426 USB 04-12-2001 Tue 1507 (TI)
8464 E03 LP id 81764 //12603//14487 USB 06-12-2001 Thu 1608
8464 E03 Lp. id 66045 USB 20-12-2001 Sun 1600 (AB)
8464 E03 id 66045 //10426//11545 USB 23-12-2001 Sun 1606 (TI)
8464 E03 id 66045 //6959//11545 USB 24-12-2001 Mon 1706 (TI)
8494.9 MX Cluster beacon "S", Arkhangelsk CW 26-12-2001 Wed 1531
(AB)
8495 MX Cluster beacon Vladivostok 'F' CW 01-12-2001 Sat 1509
8495 MX Cluster Beacon 'K' CW 02-12-2001 Sun 1520 (TI)
8495.2 MX Cluster beacon Vladivostok "F" CW 23-12-2001 Sun 1511
8588 XSL Slot Machine USB 02-12-2001 Sun 1612 (TI)
8588 XSL Slot machine USB 10-12-2001 Mon 1656 (TI)
8703.5 XSL Slot Machine USB 02-12-2001 Sun 1613 (TI)
8704 XSL Slot machine USB 10-12-2001 Mon 1655 (TI)
8805 E10 Israeli Intel. USB 16-11-2001 Fri 1552 (TI)
8805 E10 Israeli Intel. PCD2//6498 USB 16-11-2001 Fri 1704 (TI)
8805 E10 Israeli Intel. USB 27-11-2001 Tue 1534 (TI)
8805 E10 Israeli Intel. PCD//6498 USB 01-12-2001 Sat 1534 (TI)
8805 E10 Israeli Intel. PCD //6498 USB 02-12-2001 Sun 1533 (TI)
8805 E10 Israeli Intel. PCD2 USB 02-12-2001 Sun 1703 (TI)
8805 E10 Israeli Intel. USB 04-12-2001 Tue 1549 (TI)
8805 E10 in progress USB 07-12-2001 Fri 1549 (TI)
8805 E10 PCD2 //6498 USB 07-12-2001 Fri 1704 (TI)
8805 E10 PCD //6498 USB 07-12-2001 Fri 1734 (TI)
8805 E10 PCD //6498 USB 08-12-2001 Sat 1534 (TI)
8805 E10 PCD //6498 USB 09-12-2001 Sun 1534 (TI)
8805 E10 PCD USB 21-12-2001 Fri 1534 (TI)
8805 E10 PCD //6498 USB 22-12-2001 Sat 1535 (TI)
8805 E10 PCD //6498 USB 23-12-2001 Sun 1534 (TI)
8805 E10 PCD2//6498 USB 23-12-2001 Sun 1704 (TI)
8805 E10 PCD //6498 USB 24-12-2001 Mon 1535 (TI)
8805 E10 PCD2 //6498 USB 24-12-2001 Mon 1704 (TI)
8805 E10 PCD //6498 USB 24-12-2001 Mon 1736 (TI)
8940 M23 id 555 CW 21-12-2001 Fri 0407 (IB)
8959 M40a 995. 5FGs CW 05-12-2001 Wed 1603 (IB)
8992 V02a Atencion 421?9 AM 07-12-2001 Fri (TH)
8992 V02a Loud hum. S/off at 0415 UTC SSB 24-12-2001 Mon 0410
(SCD)
9130 E10 EZI USB 07-12-2001 Fri 1734 (TI)
9130 E10 //13533 USB 24-12-2001 Mon 1736 (TI)

9153	V02a	in progress AM 29-12-2001 Sat 0728 (Vambo)
9153.0	V02a	A 36591 69001 90933 AM 13-12-2001 Thu 0700 (BM)
9190	M42	Dep. of State Comms Moscow. No link id copied CROWD36 29-12-2001 Sat 0925 (LDO)
9251	E03	LP. id 85062 USB 28-12-2001 Fri 2100 (AB)
9251	E03	LP. id 66045 USB 28-12-2001 Fri 2200 (AB)
9251	E03	Lp. id 69465 USB 30-12-2001 Sun 1800 (AB)
9251	E03	LP. id 31868 USB 30-12-2001 Sun 1900 (AB)
9270	E10	VLB2 //5170 USB 23-12-2001 Sun 1550 (TI)
9270	E10	VLB2 //5230 USB 24-12-2001 Mon 1450 (TI)
9270	E10	VLB2 //5170 USB 24-12-2001 Mon 1551 (TI)
9331.0	V02a	carrier only til at least :15. Sometime after :20 numbers started, down at :45 AM 24-12-2001 Mon 0600
9355	M13	253 CW 16-11-2001 Fri 2100 (HFD)
9356	M13	253 CW 02-11-2001 Fri 2100 (HFD)
9359	71AC	Unid. 71ac 71ac ii frh5506 frh5506 frh5506 frh5506 ar ar ar CW 05-12-2001 Wed 0015 (IB)
9359	02U2	Unid. o2u2 o2u2 o2u2 ii fri1980 fri1980 fri1980 fri1980 ar ar ar CW 04-12-2001 Tue 2331 (IB)
9385	S17C	99034 //8190 AM 15-12-2001 Sat 1250 (HFD)
9385	S17C	49035 //8190 AM 16-12-2001 Sun 1250 (HFD)
9385	S17C	99035 //8190 AM 21-12-2001 Fri 1250 (HFD)
9385	S17C	99035 //8190 AM 22-12-2001 Sat 1250 (HFD)
9385	S17C	96030 //8190 AM 27-12-2001 Thu 1250 (HFD)
9385	S17C	78027 //8190 AM 28-12-2001 Fri 1250 (HFD)
9385	S17C	78027 //8190 AM 29-12-2001 Sat 1250 (HFD)
9385	S17C	99034 //8190 AM 30-12-2001 Sun 1250 (HFD)
9385	S17C	99034 //8190 AM 31-12-2001 Mon 1250 (HFD)
9725	V13	New Star BC AM 16-11-2001 Fri 1507 (TI)
9725	V13	New Star BC AM 17-11-2001 Sat 1509 (TI)
9725	V13	New Star BC AM 20-11-2001 Tue 1303 (TI)
9725	V13	New Star BC AM 20-11-2001 Tue 1402 (TI)
9725	V13	New Star BC AM 29-11-2001 Thu 1608 (TI)
9725	V13	New Star BC AM 30-11-2001 Fri 1507 (TI)
9725	V13	New Star BC AM 01-12-2001 Sat 1058 (TI)
9725	V13	New Star BC AM 01-12-2001 Sat 1357 (TI)
9725	V13	New Star BC AM 01-12-2001 Sat 1509 (TI)
9725	V13	New Star BC AM 02-12-2001 Sun 1439 (TI)
9725	V13	New Star BC AM 02-12-2001 Sun 1507 (TI)
9725	V13	New Star BC AM 03-12-2001 Mon 1506 (TI)
9725	V13	New Star BC AM 04-12-2001 Tue 1408 (TI)
9725	V13	New Star BC AM 04-12-2001 Tue 1510 (TI)
9725	V13	New Star BC AM 06-12-2001 Thu 1538 (TI)
9725	V13	New Star BC AM 08-12-2001 Sat 1509 (TI)
9725	V13	New Star BC AM 09-12-2001 Sun 1440 (TI)
9725	V13	New Star BC AM 09-12-2001 Sun 1509 (TI)
9725	V13	New Star BC AM 12-12-2001 Wed 1437 (TI)
9725	V13	New Star BC AM 12-12-2001 Wed 1507 (TI)

9725	V13	New Star BC AM 19-12-2001 Wed 1407 (TI)
9725	V13	New Star BC AM 19-12-2001 Wed 1508 (TI)
9725	V13	New Star BC AM 21-12-2001 Fri 1511 (TI)
9725	V13	New Star BC AM 22-12-2001 Sat 1506 (TI)
9725	V13	New Star BC AM 24-12-2001 Mon 1410 (TI)
9725	V13	New Star BC AM 24-12-2001 Mon 1508 (TI)
10050	E11	232/00 AM 22-11-2001 Thu 0800 (HFD)
10107	M23	id 555 CW 21-12-2001 Fri 0236 (IB)
10125	E10	Israeli Intel. KPA2 //8127 USB 02-12-2001 Sun 1518
10125	E10	Israeli Intel. KPA2 //6370//8127 USB 04-12-2001 Tue
10125	E10	KPA2 //8127 USB 07-12-2001 Fri 1419 (TI)
10125	E10	KPA2 //6370 8127 USB 07-12-2001 Fri 1520 (TI)
10125	E10	KPA2 //6370//8127 USB 08-12-2001 Sat 1518 (TI)
10125	E10	KPA2 USB 09-12-2001 Sun 1519 (TI)
10125	E10	KPA2 //6370//8127 USB 12-12-2001 Wed 1418 (TI)
10125	E10	KPA2 //8127 USB 16-12-2001 Sun 1521 (TI)
10125	E10	KPA2 //8127 USB 21-12-2001 Fri 1518 (TI)
10125	E10	KPA2 //8127 USB 22-12-2001 Sat 1519 (TI)
10125	E10	KPA2 //8127 USB 23-12-2001 Sun 1518 (TI)
10125	E10	KPA2 //8127 USB 24-12-2001 Mon 1419 (TI)
10125	E10	KPA2 //6370//8127 USB 24-12-2001 Mon 1521 (TI)
10248	M16	8BY: French Intel Ste Assize FRA. 3x3FGs CW 11-12-2001 Tue 1649 (RGA)
10426	E03	LP 70075 USB 27-11-2001 Tue 1506 (TI)
10426	E03	LP id 51905 //8464 USB 02-12-2001 Sun 1606 (TI)
10426	E03	LP id 82518 //8464 USB 04-12-2001 Tue 1507 (TI)
10426	E03	id 39882 USB 17-12-2001 Mon 1400 (TI)
10426	E03	Lp. id 66045 USB 20-12-2001 Sun 1600 (AB)
10426	E03	id 66045 //8464//11545 USB 23-12-2001 Sun 1606 (TI)
10426	E03	id 39882 USB 24-12-2001 Mon 1408 (TI)
10445.0	V02A	59323 55861 99911 AM 31-12-2001 Mon 0300 (CS)
10445.0	V02a	A 59323 _____ audio mixing with 6855 AM 31-12-2001 Mon 0300 (BM)
10642	S10E	111:56020-44/20=60328 AM 22-11-2001 Thu 1300 (HFD)
10642	S10e	ending 1324 UTC AM 17-12-2001 Mon 1300 (PB)
10642	S10E	111:34803-81/18=43086 43857-82/17=13650 77605-36/14=85223 55288-84/20=06815 000 AM 18-12-2001 Tue 1300 (HFD)
10648	E10	Israeli Intel. USB 16-11-2001 Fri 1606 (TI)
10648	E10	Israeli Intel. USB 27-11-2001 Tue 1606 (TI)
10648	E10	Israeli Intel. YHF USB 02-12-2001 Sun 1605 (TI)
10648	E10	Israeli Intel. YHF //7918 USB 04-12-2001 Tue 1603 (TI)
10648	E10	Israeli Intel. //7918 USB 06-12-2001 Thu 1605 (TI)
10648	E10	//7918 USB 07-12-2001 Fri 1606 (TI)
10648	E10	YHF //7918 USB 22-12-2001 Sat 1604 (TI)
10648	E10	YHF //7918 USB 23-12-2001 Sun 1604 (TI)
10648	E10	YHF //7918 USB 24-12-2001 Mon 1604 (TI)
10648	E10	Israeli Intel. YHF + msg AM 28-12-2001 Fri 1600 (AB)

10660	M23	id 000 CW 27-12-2001 Thu 1633 (IB)
10750	V09	Guangzhou calling AM 11-12-2001 Tue 1530 (AY)
10840	S06c	sent 11068 for 4 minutes USB 15-12-2001 Sat 1500 (CR)
10870	E06	741/0 AM 10-11-2001 Sat 1500 (HFD)
10871.9	MX	Cluster beacon "S", Arkhangelsk CW 26-12-2001 Wed 1531 (AB)
10922	M10	23 176 22 555 730 23 176 = 32593 51060.....= = 93 23 176 80 22 = 89657....' words twice CW 04-12-2001 Tue
11024	XPH	msg AM 28-12-2001 Fri 0700 (HFD)
11096	M21	Russian Air Defence net w/ 14F messages, cut zeros CW 30-12-2001 Sun 0710 (PILE)
11096	M21	Russian Air Defense. BT99 etc CW 31-12-2001 Mon 0637
11218	M23	id 555 CW 27-12-2001 Thu 1538 (IB)
11430	V13	New Star BC AM 16-11-2001 Fri 1507 (TI)
11430	V13	New Star BC AM 17-11-2001 Sat 1509 (TI)
11430	V13	New Star BC AM 20-11-2001 Tue 1303 (TI)
11430	V13	New Star BC AM 20-11-2001 Tue 1402 (TI)
11430	V13	New Star BC AM 27-11-2001 Tue 1609 (TI)
11430	V13	New Star BC AM 28-11-2001 Wed 1412 (TI)
11430	V13	New Star BC AM 28-11-2001 Wed 1514 (TI)
11430	V13	New Star BC AM 01-12-2001 Sat 1059 (TI)
11430	V13	New Star BC AM 01-12-2001 Sat 1357 (TI)
11430	V13	New Star BC AM 01-12-2001 Sat 1509 (TI)
11430	V13	New Star BC AM 02-12-2001 Sun 1439 (TI)
11430	V13	New Star BC AM 02-12-2001 Sun 1507 (TI)
11430	V13	New Star BC AM 02-12-2001 Sun 1608 (TI)
11430	V13	New Star BC AM 03-12-2001 Mon 1506 (TI)
11430	V13	New Star BC AM 04-12-2001 Tue 1408 (TI)
11430	V13	New Star BC AM 04-12-2001 Tue 1510 (TI)
11430	V13	New Star BC AM 06-12-2001 Thu 1538 (TI)
11430	V13	New Star BC AM 08-12-2001 Sat 1509 (TI)
11430	V13	New Star BC AM 09-12-2001 Sun 1440 (TI)
11430	V13	New Star BC AM 09-12-2001 Sun 1509 (TI)
11430	V13	New Star BC AM 12-12-2001 Wed 1437 (TI)
11430	V13	New Star BC AM 12-12-2001 Wed 1507 (TI)
11430	V13	New Star BC AM 19-12-2001 Wed 1407 (TI)
11430	V13	New Star BC AM 19-12-2001 Wed 1508 (TI)
11430	V13	New Star BC AM 21-12-2001 Fri 1511 (TI)
11430	V13	New Star BC AM 22-12-2001 Sat 1506 (TI)
11430	V13	New Star BC AM 23-12-2001 Sun 1508 (TI)
11430	V13	New Star BC AM 24-12-2001 Mon 1410 (TI)
11430	V13	New Star BC AM 24-12-2001 Mon 1508 (TI)
11460	M42	FAPSI. 5LG on Link 60047 RTTY 07-12-2001 Fri 1640
11525	M42	Dep. of State Comms Moscow. No link id copied CROWD36 29-12-2001 Sat 1110 (LDO)
11545	E03	LP //13375 USB 16-11-2001 Fri 1611 (TI)
11545	E03	LP 55555 USB 16-11-2001 Fri 1707 (TI)
11545	E03	LP 24938 USB 17-11-2001 Sat 1507 (TI)

11545	E03	LP USB 20-11-2001 Tue 1643 (TI)
11545	E03	LP 00943 USB 27-11-2001 Tue 1607 (TI)
11545	E03	LP USB 27-11-2001 Tue 1706 (TI)
11545	E03	LP USB 01-12-2001 Sat 1405 (TI)
11545	E03	LP 86228 USB 01-12-2001 Sat 1507 (TI)
11545	E03	Lp id 11272 USB 04-12-2001 Tue 1607 (TI)
11545	E03	LP id 09925 USB 04-12-2001 Tue 1709 (TI)
11545	E03	id 14465 USB 07-12-2001 Fri 1506 (TI)
11545	E03	LP broken sound USB 08-12-2001 Sat 1403 (TI)
11545	E03	LP USB 08-12-2001 Sat 1500 (TI)
11545	E03	LP in progress USB 09-12-2001 Sun 1427 (TI)
11545	E03	09925 USB 09-12-2001 Sun 1505 (TI)
11545	E03	LP broken sound //13375 USB 10-12-2001 Mon 1607 (TI)
11545	E03	id 81764 USB 12-12-2001 Wed 1506 (TI)
11545	E03	//13375 USB 14-12-2001 Fri 1523 (TI)
11545	E03	id 85062 //12603 USB 16-12-2001 Sun 1500 (TI)
11545	E03	79294 USB 19-12-2001 Wed 1507 (TI)
11545	E03	Lp. id 66045 USB 20-12-2001 Sun 1600 (AB)
11545	E03	id 69465 //13375 USB 21-12-2001 Fri 1508 (TI)
11545	E03	id 44836 USB 23-12-2001 Sun 1400 (TI)
11545	E03	85062 USB 23-12-2001 Sun 1506 (TI)
11545	E03	id 66045 //8464//10426 USB 23-12-2001 Sun 1607 (TI)
11545	E03	id 14284 USB 23-12-2001 Sun 1706 (TI)
11545	E03	id 44836 USB 24-12-2001 Mon 1506 (TI)
11545	E03	id 66045 //8464//6959 USB 24-12-2001 Mon 1706 (TI)
11545	E03	LP. id 69465 USB 28-12-2001 Fri 1500 (AB)
11545	E03	LP. id 69465 USB 29-12-2001 Sat 1600 (AB)
11545	E03	LP. id 85062 USB 30-12-2001 Sun 1500 (AB)
11545	E03	LP. id 14284 USB 30-12-2001 Sun 1700 (AB)
11545.0	E03	in progress USB 15-12-2001 Sat 2221 (BM)
11545.0	E03	5FG x 2 USB 22-12-2001 Sat 1600 (SMK)
11564		ASA/CIA Frankfurt. Regular 10 min transmission USB/PSK 27-12-2001 Thu 0940 (LDO)
11565	E10	Israeli Intel. USB 16-11-2001 Fri 1449 (TI)
11565	E10	Israeli Intel. USB 16-11-2001 Fri 1637 (TI)
11565	E10	Israeli Intel. USB 16-11-2001 Fri 1705 (TI)
11565	E10	Israeli Intel. EZI USB 26-11-2001 Mon 1434 (TI)
11565	E10	Israeli Intel. USB 27-11-2001 Tue 1635 (TI)
11565	E10	Israeli Intel. EZI2 USB 04-12-2001 Tue 1604 (TI)
11565	E10	Israeli Intel. EZI //13533 USB 04-12-2001 Tue 1634
11565	E10	Israeli Intel. USB 04-12-2001 Tue 1707 (TI)
11565	E10	in progress USB 07-12-2001 Fri 1438 (TI)
11565	E10	in progress USB 07-12-2001 Fri 1649 (TI)
11565	E10	EZI USB 09-12-2001 Sun 1434 (TI)
11565	E10	EZI //13533 USB 12-12-2001 Wed 1434 (TI)
11565	E10	???2 USB 21-12-2001 Fri 1604 (TI)
11565	E10	in progress USB 21-12-2001 Fri 1635 (TI)
11565	E10	EZI2 USB 22-12-2001 Sat 1604 (TI)

11565 E10 EZI USB 23-12-2001 Sun 1634 (TI)
11565 E10 in progress USB 23-12-2001 Sun 1705 (TI)
11565 E10 EZI USB 24-12-2001 Mon 1704 (TI)
11565.0 E10 Unusually clear here tonight. picked up in progress
USB 14-12-2001 Fri 0447 (JSI)
11565.0 E10 EZI unusually strong and clear USB 15-12-2001 Sat
0500 (JSI)
11565.0 E10 EZI ... Strong Signal again USB 16-12-2001 Sun 0435
11565.0 E10 EZI in progress AM 31-12-2001 Mon 0230 (CS)
12165.0 V02A AM 31-12-2001 Mon 0200 (CS)
12165.0 V02a AM 31-12-2001 Mon 0200 (BM)
12176 M42 Dep. of State Comms Moscow. Msgs to NQX on link 00052
RTTY 29-12-2001 Sat 1330 (LD0)
12180.0 V02a in progress AM 19-12-2001 Wed 0214 (BM)
12210 X06 FAPSI. Mazielka calls AM 11-12-2001 Tue 1641 (RH2)
12215.0 V02a Occasional warble in background, heavy static AM
10-12-2001 Mon 0200 (TP)
12215.0 V02a A 13982 77793 89613 AM 18-12-2001 Tue 0200 (BM)
12224 XPH msg AM 18-12-2001 Tue 0720 (HFD)
12224 XPH msg AM 28-12-2001 Fri 0720 (HFD)
12224.0 XPH Some MFSK interference AM 10-12-2001 Mon 0720 (TP)
12603 E03 LP id 81764 //8464//14487 USB 06-12-2001 Thu 1611 (TI)
12603 E03 id 85062 //11545 USB 16-12-2001 Sun 1500 (TI)
12603 E03 LP. id 69465 USB 28-12-2001 Fri 1500 (AB)
12603 E03 LP. id 17735 USB 28-12-2001 Fri 1600 (AB)
12603 E03 LP. id 69465 USB 29-12-2001 Sat 1600 (AB)
12603 E03 LP. id 85062 USB 30-12-2001 Sun 1500 (AB)
12603 E03 LP. id 14284 USB 30-12-2001 Sun 1700 (AB)
12603 E03 Lp. id 69465 USB 30-12-2001 Sun 1800 (AB)
12999 Unid. 351 351 351 351 351 351 84, pause, 0, pause, 0
CW 26-12-2001 Wed 0840 (IB)
13055 792 Unid repeating "792 792 792 000" for 8 minutes CW
17-12-2001 Mon 0700 (IB)
13200.0 E17 USB 14-12-2001 Fri 0021 (MS3)
13200.0 E17 E17? currently MQ76YQ twice msg follows(English) USB
14-12-2001 Fri 0021 (MS3)
13375 E03 LP 27669 USB 16-11-2001 Fri 1500 (TI)
13375 E03 LP //11545 USB 16-11-2001 Fri 1614 (TI)
13375 E03 id 09925 //11545 USB 10-12-2001 Mon 1607 (TI)
13375 E03 //11545 USB 14-12-2001 Fri 1523 (TI)
13375 E03 id 69465 //11545 USB 21-12-2001 Fri 1500 (TI)
13375 E03 LP. id 69465 USB 28-12-2001 Fri 1500 (AB)
13375 E03 LP. id 69465 USB 29-12-2001 Sat 1600 (AB)
13375 E03 LP. id 14284 USB 30-12-2001 Sun 1700 (AB)
13375.0 E03 ID 14284 USB 16-12-2001 Sun 1700 (CS)
13392 M42 FAPSI RTTY 29-12-2001 Sat 1310 (Pile)
13458 M42 Dep. of State Comms Moscow. Msgs on link 70026 CROWD36
27-12-2001 Thu 1008 (LD0)

13470	M42	Dep. of State Comms Moscow. Msgs on link 80061fron VNB to WQL RTTY 27-12-2001 Thu 0934 (LDO)
13506	M42	Dep. of State Comms Moscow. Msgs on link 40034 from RLX to UXW RTTY 27-12-2001 Thu 0940 (LDO)
13527.9	MX	Cluster beacon "S", Arkhangelsk CW 26-12-2001 Wed 1531 (AB)
13528	MX	Cluster beacon Vladivostok 'F' CW 01-12-2001 Sat 1510
13533	E10	Israeli Intel. EZI USB 16-11-2001 Fri 1433 (TI)
13533	E10	Israeli Intel. EZI2 USB 16-11-2001 Fri 1504 (TI)
13533	E10	Israeli Intel. EZI USB 04-12-2001 Tue 1434 (TI)
13533	E10	Israeli Intel. EZI //11565 USB 04-12-2001 Tue 1635
13533	E10	EZI //11565 USB 12-12-2001 Wed 1451 (TI)
13533	E10	in progress USB 21-12-2001 Fri 1636 (TI)
13533	E10	//9130 USB 24-12-2001 Mon 1737 (TI)
13548	M42	Dep. of State Comms Moscow. Msgs on link 10020 RTTY 27-12-2001 Thu 0928 (LDO)
13750	V13	New Star BC AM 04-12-2001 Tue 1408 (TI)
13750	V13	New Star BC AM 04-12-2001 Tue 1510 (TI)
13750	V13	New Star BC AM 19-12-2001 Wed 1407 (TI)
13750	V13	New Star BC AM 19-12-2001 Wed 1508 (TI)
13750	V13	New Star BC AM 24-12-2001 Mon 1410 (TI)
13750	V13	New Star BC AM 24-12-2001 Mon 1508 (TI)
13906.0	E05	USB 02-12-2001 Sun 1200 (Selco)
13924	XPH	msg AM 28-12-2001 Fri 0740 (HFD)
13949		Unid. VVV DX7 DX7 DX7 DE NG2 NG2 QRU (rpt) VA VA CW 12-12-2001 Wed 0726 (IB)
14000	E15	FYP USB 05-12-2001 Wed 1402 (MP)
14380	E06	English Man 193 628/59=06439 AM 16-12-2001 Sun 1330 (HFD)
14380	E06	193-628/59=06439 AM 16-12-2001 Sun 1330 (HFD)
14380	E06	id 193. 654 654 77 77 5FGs. Ends 00000 AM 30-12-2001 Sun 1330 (AB)
14380	E06	ip AM 30-12-2001 Sun 1335 (HFD)
14380.0	E06	AM 30-12-2001 Sun 1330 (ASC)
14382		CIA/ASA QRT 1510 UTC. 108.87bd/160Hz FSK 29-12-2001 Sat 1510 (LDO)
14487	E03	LP USB 20-11-2001 Tue 1400 (TI)
14487	E03	LP id 81764 //8464//12603 USB 06-12-2001 Thu 1612 (TI)
14487	E03	id 14284 //15682 USB 21-12-2001 Fri 1400 (TI)
14487	E03	LP id 37739 USB 27-12-2001 Thu 1300 (AB)
14487	E03	LP id 14284 USB 28-12-2001 Fri 1200 (AB)
14487	E03	LP id 31868 USB 28-12-2001 Fri 1300 (AB)
14487	E03	LP. id 14284 USB 28-12-2001 Fri 1400 (AB)
14487	E03	LP. id 17735 USB 28-12-2001 Fri 1600 (AB)
14487	E03	LP. id 31868 USB 30-12-2001 Sun 1300 (AB)
14487	E04	Cherry Ripe USB 21-12-2001 Fri 1300 (TI)
14729	M23	id 310 CW 23-12-2001 Sun 1501 (IB)
14739	E05	389//16198 USB 16-11-2001 Fri 1506 (TI)

14739	E05	020//16198 USB 27-11-2001 Tue 1507 (TI)
14739	E05	020//16198 USB 30-11-2001 Fri 1505 (TI)
14739	E05	020 //16198 USB 04-12-2001 Tue 1509 (TI)
14739	E05	020 //16198 USB 07-12-2001 Fri 1508 (TI)
14739	E05	020 //16198 USB 09-12-2001 Sun 1507 (TI)
14739	E05	//16198 USB 14-12-2001 Fri 1524 (TI)
14739	E05	020 //16198 USB 16-12-2001 Sun 1507 (TI)
14739	E05	020 //16198 USB 21-12-2001 Fri 1509 (TI)
14739	E05	020 //16198 USB 23-12-2001 Sun 1506 (TI)
14739	E05	Counting Station id 020 USB 28-12-2001 Fri 1500 (AB)
14938	M42	Dep. of State Comms Moscow. Msgs on link 00007 CROWD36 26-12-2001 Wed 1035 (LDO)
15682	E03	id 14284 //14487 USB 21-12-2001 Fri 1400 (TI)
15682	E03	LP. id 14284 USB 28-12-2001 Fri 1400 (AB)
15732.0	E05	USB 02-12-2001 Sun 1200 (Selco)
15820.0	E06	AM 09-12-2001 Sun 1330 (Selco)
16084	E03	LP 13324 USB 17-11-2001 Sat 1302 (TI)
16084	E03	LP 94814 USB 17-11-2001 Sat 1402 (TI)
16084	E03	Lincolnshire Poacher USB 23-12-2001 Sun 1310 (PPs)
16084	E03	LP id 14284 USB 28-12-2001 Fri 1200 (AB)
16084	E03	LP id 31868 USB 28-12-2001 Fri 1300 (AB)
16084	E03	LP. id 14284 USB 28-12-2001 Fri 1400 (AB)
16084	E03	LP. id 31868 USB 30-12-2001 Sun 1300 (AB)
16119	M42	Dep. of State Comms Moscow. Msgs on link 90039 CROWD36 29-12-2001 Sat 1512 (LDO)
16133	E06	English Man in progress. Ends 00000 AM 26-12-2001 Wed 1512 (AB)
16198	E05	389//14739 USB 16-11-2001 Fri 1506 (TI)
16198	E05	Counting Station USB 16-11-2001 Fri 1611 (TI)
16198	E05	020//14739 USB 27-11-2001 Tue 1508 (TI)
16198	E05	020//14739 USB 30-11-2001 Fri 1505 (TI)
16198	E05	020 USB 02-12-2001 Sun 1506 (TI)
16198	E05	020 //14739 USB 04-12-2001 Tue 1509 (TI)
16198	E05	020 //14739 USB 07-12-2001 Fri 1507 (TI)
16198	E05	020 //14739 USB 09-12-2001 Sun 1507 (TI)
16198	E05	//14739 USB 14-12-2001 Fri 1524 (TI)
16198	E05	020 //14739 USB 16-12-2001 Sun 1500 (TI)
16198	E05	020 //14739 USB 21-12-2001 Fri 1509 (TI)
16198	E05	020 //14739 USB 23-12-2001 Sun 1506 (TI)
16198	E05	Counting Station id 020 USB 28-12-2001 Fri 1500 (AB)
16331.9	MX	Cluster beacon "S", Arkhangelsk CW 26-12-2001 Wed 1531 (AB)
16938	M23	id 310 CW 27-12-2001 Thu 1437 (IB)
17520.0	E06	AM 02-12-2001 Sun 1230 (Selco)
17520.0	E06	193 628 59 ... AM 16-12-2001 Sun 1230 (Selco)
17520.0	E06	AM 30-12-2001 Sun 1230 (ASC)
18413	M16	8BY CW 28-12-2001 Fri 1055 (PLW)
18566	M14b	id 495. Dual msg 716 716 155 155 = = and 230 230 187

187 = = CW 26-12-2001 Wed 0940 (IB)

18864	E04	Cherry Ripe id 33694 USB 27-12-2001 Thu 1300 (AB)
18864	E04	Cherry Ripe in progress USB 28-12-2001 Fri 1116 (AB)
18864	E04	Cherry Ripe id 33694 USB 28-12-2001 Fri 1200 (AB)
18866	E04	Cherry Ripe id 98606 USB 28-12-2001 Fri 1300 (AB)
19145	X06	FAPSI. Mazielka calls AM 29-12-2001 Sat 1332 (MM4)
19175	M42	Dep. of State Comms Moscow. Msgs to URO on link 60047 RTTY 29-12-2001 Sat 1002 (LD0)
19452	E03	LP in progress USB 26-12-2001 Wed 1400 (MC)
19585	M42	FAPSI. Msgs on link 30088 RTTY 26-12-2001 Wed 1446
19858	M42	Dep. of State Comms Moscow. Msgs to RCX81 on link 30088. Telegr. equipm. faulty -> 73.3Bd instead of 75Bd RTTY 26-12-2001 Wed 0940 (LD0)
20047.9	MX	Cluster beacon "S", Arkhangelsk CW 26-12-2001 Wed 1531 (AB)
20179	M12	5FGs ... 33312 79535 36805 77710 745 745 111 111 000 000 CW 22-12-2001 Sat 0754 (IB)
20370	M42	Dep. of State Comms Moscow. Msgs on link 90039 RTTY 29-12-2001 Sat 0925 (LD0)
20707	E03	LP in progress USB 26-12-2001 Wed 1400 (LD0)
20707	E03	LP in progress USB 26-12-2001 Wed 1400 (MC)
20945	M16	8BY. DGSE. VVV 8BY + 3FGs 274/762/371 CW 20-12-2001 Thu 1046 (TE2)
21866	E04	Cherry Ripe id 06470 USB 27-11-2001 Tue 0000 (TI)
21866	E04	Cherry Ripe id 77794 USB 19-12-2001 Wed 1301 (TI)
21866	E04	Cherry Ripe id 33694 USB 27-12-2001 Thu 1300 (AB)
21866	E04	Cherry Ripe id 98606 USB 28-12-2001 Fri 1300 (AB)
23461	E04	Cherry Ripe USB 17-12-2001 Mon 1230 (TI)
23461	E04	Cherry Ripe in progress USB 28-12-2001 Fri 1116 (AB)
23461	E04	Cherry Ripe id 33694 USB 28-12-2001 Fri 1200 (AB)

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